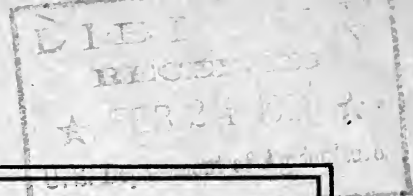


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Do not assume content reflects current scientific knowledge, policies, or practices.



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# White's Seeds Produce

**Annual Catalog  
1921**

**D. A. White & Sons**

**Wholesale and Retail**

**Feedmen and Seedmen**

**Poultry and Bee Supplies**

**251-261 State Street, SALEM, OREGON**

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# 1921

**A**T THIS time, the commencing of a New Year, we desire to thank our customers for their loyal support the past year and we trust, if reliable goods and good service merit your support, to continue to count you as our friends.

As you know, conditions are very unsettled and we believe that it will pay every family to try and raise a good garden this season, as well as other crops, as you will find it a great help in keeping down your expense account.

All prices are subject to market changes, as at this time it is impossible to arrange any price that may be good for any length of time.

We thank you for many past favors and trust to receive your valued orders the coming year. Yours very truly,

D. A. WHITE & SONS.

## How to Order By Mail

**YOUR NAME AND ADDRESS.** Be very sure that your name and address in full are written very plainly.

**CASH WITH ORDER.** The proper way is to send remittance in full to cover order and postage. We send orders C. O. D. only if 25 per cent of the amount of order is enclosed. Plants we never send out C. O. D.

**REMITTANCES** should be made by Postoffice Money Order, Express Money Order, or by Bank Draft. For amounts up to one dollar, clean, unused postage stamps will be accepted. Coin should not be sent by mail. Checks on local banks may be sent, which will be a great convenience to many customers. We do not accept responsibility for orders which never reach us.

**SHIPPING** We will use our best judgment as to the best way of sending orders when specific directions are not given. If special directions in shipping are needed, send them explicitly, and where express or freight office is different from postoffice, so state in space on our order sheet. Paris Green, Nico Fume and other poisons are not mailable; they must go by express or freight.

**ZONE RATES** may be had by application to your postmaster, who will tell you the zone which you are in with reference to Salem, or we will tell you as nearly as we can if you write us.

### DOMESTIC PARCEL POST RATES

| ON SEEDS, PLANTS, ROOTS, TOOLS, ETC., WITHIN THE |                                     | FIRST POUND | EACH ADDITIONAL POUND OR |
|--|-------------------------------------|-------------|--------------------------|
| U. S. AND POSSESSIONS                            |                                     | FRACTION    | FRACTION                 |
| First Zone                                       | —Salem and within 50 miles of Salem | 5c          | 1c                       |
| Second Zone                                      | —within 50 to 150 miles of Salem    | 5c          | 1c                       |
| Third Zone                                       | —within 150 to 300 miles of Salem   | 6c          | 2c                       |
| Fourth Zone                                      | —within 300 to 600 miles of Salem   | 7c          | 4c                       |
| Fifth Zone                                       | —within 600 to 1000 miles of Salem  | 8c          | 6c                       |
| Sixth Zone                                       | —within 1000 to 1400 miles of Salem | 9c          | 8c                       |
| Seventh Zone                                     | —within 1400 to 1800 miles of Salem | 11c         | 10c                      |
| Eight Zone                                       | —all over 1800 miles of Salem       | 12c         | 12c                      |

# WHITE'S SELECTED TESTED VEGETABLE SEEDS

## DISCLAIMER

We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.—We give no warranty, express or implied, as to the description, quality, productiveness or any other matter of any seeds, bulbs or plants sent out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

D. A. WHITE & SONS

## ASPARAGUS

**Palmetto.** One of the best varieties. Quality first-class. Pkt. 5c; oz. 15c; lb.. 85c, postpaid.

## BEANS

(If wanted by mail add postage)

### DWARF OR BUSH—GREEN PODDED

**Stringless Green Podded.** Without doubt the best green-podded variety on the market. Is very early; pods are long, rather round, very fleshy. Fine for market and home garden. Pkt. 10c; lb. 25c; 10 lbs. \$2.25.

**Canadian Wonder.** This splendid bush bean is the largest, most prolific of the green-podded sorts, and is entirely stringless in its early development. Comes a little later than the New Stringless Green Pod, but continues in bearing throughout the season, and is excellent shelled green. Pkt. 10c; lb. 25c; 10 lbs. \$2.25.

**Dwarf Horticultural.** A very vigorous variety; used as green shelled as well as a string or dry bean. Pods medium length. Pkt. 10c; lb. 25c.

**Castor Bean.** Used for medicinal purposes and claimed to keep moles away. Pkt. 10c; lb. 35c.

**Refugee, or Thousand to One.** Of great value on account of its hardiness, vigorous growth and wonderful productiveness. Is not excelled by any other variety as a snap bean, and is considered the best for pickling or canning. Beans small, dark purple, veined brown. Pods of perfect form, dark green, veined purple. Pkt. 10c; lb. 25c; 10 lbs. \$2.25.

### WAX PODDED BUSH BEANS

**Davis White Wax.** Rustless and very productive; hardy and one of the best for market gardeners. The dried bean is kidney shaped, clear white and a favorite for baking and canning. Lb. 25c. 10 lbs. \$2.25.

**Golden Wax.** One of the most popular garden variety in cultivation. Pods are long and a beautiful golden yellow, crisp and tender. Pkt. 10c; lb. 25c; 10 lbs. \$2.40.

**Improved Black Wax.** The earliest of all wax beans. Excellent quality and very productive. Lb. 25c; 10 lbs. \$2.25.

### POLE BEANS—GREEN AND WAX PODDED

**Kentucky Wonder, or Asparagus.** The most popular of the pole beans for both garden and market. It grows luxuriantly and bears for a long time. Fine for table and canning. Pods are very long, very fleshy and deeply creased; green in color and stringless. Pkt. 10c; lb. 25c; 10 lbs. \$2.25.

**Horticultural.** An old favorite. Pods short, pale green splashed with red. Used green or dry shelled. Pkt. 10c; lb. 25c.

**White Dutch Case Knife.** A climbing variety with long, flat pods which become creamy white as they mature. Pkt. 10c; lb. 25c.

**Scarlet Runner.** The well known and old fashioned climber; bright scarlet flowers; also used as a shell bean. Pkt. 10c; lb. 35c.

### LIMA BEANS

**Burpee's Bush.** The best dwarf variety. Very prolific. Pods and beans large; fine for green shelled. Pkt. 10c; lb. 35c.

**Large White Lima.** A good variety of the pole kind. Is very prolific and of good quality. Pkt. 10c; lb. 35c.

### FIELD BEANS

(Write for prices on large lots)

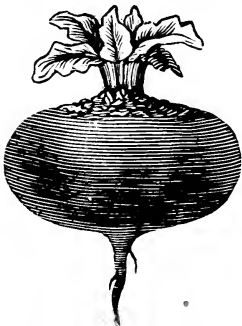
**Lady Washington.** This small white bean is a great improvement over the old Navy bean; a heavy yielder and suitable for this climate. Lb. 15c; 10 lbs. \$1.

**Navy Beans.** We handle Oregon grown seed and you will find they yield well and ripen in this valley. Lb. 15c; 10 lbs. \$1.

### BEETS—Table Varieties

A light sandy loam is preferable for good shaped roots of good color. The soil must be rich and moist to get a quick growth which is essential to crisp, tender flesh.

**White's Improved Blood Turnip.** We have this grown especially for us, and can recommend it as one of the very best table beets: a turnip-shaped variety with deep red flesh; tops green. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.



**Extra Early Egyptian.** One of the best known and most popular varieties. Is very early and of fine quality. Bright red with clear vermillion flesh. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.

**Extra Early Eclipse.** A fine, early table variety, tapering, globe shaped. Flesh deep crimson, zoned with pink. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.

**Detroit Dark Red.** One of the best table varieties. Globe shaped, bright but rich red flesh. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.25.

**Woodruff's Early Wonder.** This is a new variety that is fine both for market and home gardens. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Half Long Blood.** Grows about eight inches long. Very rich, deep red flesh and of fine color. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.

**Long Dark Smooth Blood.** The leading late variety, keeping well all the winter. Flesh deep purple, fine and sweet. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.

**Swiss Chard Beet.** Cultivated for its stalks and leaves which are prepared and served similar to asparagus. Tender and delicious. Pkt. 5c; oz. 15c; lb. \$1.50.

### MANGEL WURZEL, SUGAR AND STOCK BEET

Should be grown more extensively, as they afford an abundance of feed at a small outlay.

**Mammoth Long Red.** Grows to a very large size and makes fine feed. Very uniform, smooth and of good shape. Often yields from 40 to 50 tons per acre. Should be grown in deep, loose soil. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 70c; postpaid.

**Golden Tankard.** A very large mangel growing; about half out of the ground. Considered the best for dairymen. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 80c, postpaid..

**French Sugar Beet.** Flesh white and tender. Fine for table and stock feeding. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 90c, postpaid.

**New Mangel Half Sugar.** Fine for stock feeding. Does not yield as heavy as the mangels but makes better feed. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 70c, postpaid

**Danish Sludstrup.** This new mangel comes highly recommended. Long, reddish yellow, grows well above the ground, and is easy to pull. Has repeatedly been awarded a first-class certificate by the Danish Government and is doubtless the best mangel in the world. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 70c.

**Sugar Beets.** This is the genuine sugar beet. You can make your own syrup and coarse sugar very easily. Pkt. 5c; oz. 15c; lb \$1.

### BIRD SEED

Rape. Per lb. 10c  
Millet. Per lb. 15c  
Cuttlebone. Per oz. 10c.  
Sunflower. Per lb. 15c

Canary. Per lb. 15c  
Hemp. Per lb. 15c  
Mixed. Per lb. 15c  
If wanted by mail add parcel postage.

### BROCCOLI

Broccoli is very much like cauliflower in general appearance and growth, but is hardier and will stand more cold and frost. Produce fine heads from late in the fall until early spring, according to time plants are set out. Culture same as cauliflower.

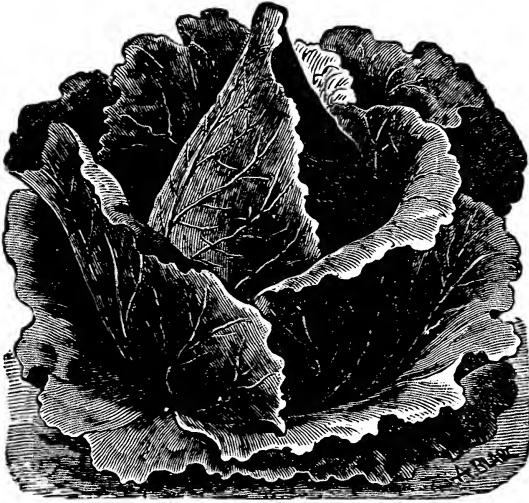
**Large White French.** A valuable variety, with large heads, firm and of good quality. Pkt. 10c; oz. 50c.

**St. Valentine.** The finest of all Broccoli. This grand new strain is a sure header of immense size, finest quality, and is ready for market in February. The large, solid, handsome, white heads remain in good condition longer than other varieties. Pkt. 10c;  $\frac{1}{4}$  oz. 40c; oz. \$1.25.

### BRUSSELS SPROUTS

**Dwarf Improved.** A carefully grown variety, very hardy and giving compact round sprouts of large size and of good quality. Pkt. 10c; oz. 30c.

## CABBAGE



**Culture**—For the earliest supply seed may be sown in September and the plants wintered over in cold-frames, or seed started in hot-beds or cold-frames early in the spring. For the fall crop seed should be sown early in June and the young plants transplanted to the rows during the latter part of July. In planting be sure to set the young plants down to the first leaves. One ounce of seed will sow 300 feet of drill; four ounces sown thinly should provide enough plants for one acre.

### EARLY VARIETIES

**Early Jersey Wakefield.** The favorite early cabbage with market gardeners. The heads are of good size, solid, a sure header and always

give satisfaction. Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1; lb. \$3.50.

**Early Flat Dutch.** Firm, fine grained and tender. Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1; lb. \$3.50.

**Charleston or Large Wakefield.** Larger and a little later than the Jersey Wakefield. Pkt. 5c; oz. 35c; lb. \$4.

### LATE CABBAGE

**Premium Late Flat Dutch.** Considered the best late cabbage for all purposes. A sure header. Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.20; lb. \$4.

**Premium Late Drumhead.** Has no superior for family or market purposes, either for medium early or late purposes. Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.20; lb. \$4.

**Hollander or Danish Ball Head.** Head of medium size, round and very solid. The finest cabbage ever sold on the market. Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.50; lb. \$4.50.

**Sure Head.** A favorite with many. Certain to head. Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.20; lb. \$4.

## CAULIFLOWER

**Culture.**—The cauliflower succeeds well in any soil where cabbage will grow.

**Large Algiers.** A valuable late sort, sure to head, of the best quality, and very popular with market gardeners everywhere. One of the very best late varieties. Pkt. 10c; oz. \$1.75.

**Early Snowball.** The best and most popular variety grown. Uniformly fine heads, even under adverse conditions. Pkts. 15c; 25c,  $\frac{1}{4}$  oz. \$1; oz. \$3.

**Oregon Wonder.** A late variety, forming good, large, solid heads during the winter. This variety has given great satisfaction in Oregon wherever tried. Pkt. 10c;  $\frac{1}{4}$  oz. 40c; oz. \$1.25

**Danish Giant—Dry Weather.** A strain of the Early Snowball type, which is especially adapted to drier climates. It

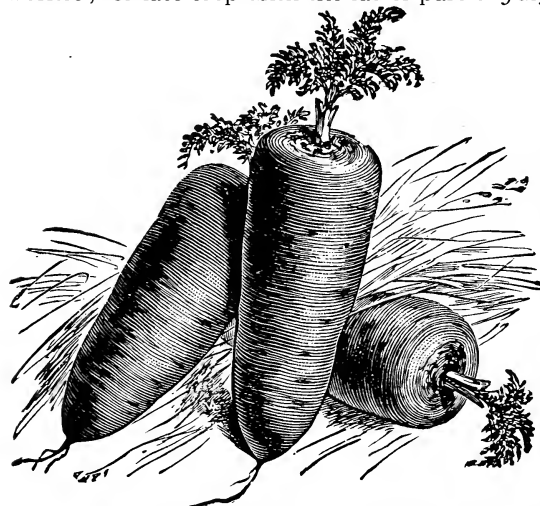


is a Danish variety (the best cauliflower comes from Denmark), and is destined to become very popular in our climate. Pkt. 15c;  $\frac{1}{4}$  oz. \$1; oz. \$3.

**Autumn Giant.** The heads are white, large, compact and thoroughly protected by foilage. Pkt. 10c; oz. \$1.50

## CARROTS

**Culture.**—For early carrots for table use sow as early as the ground can be worked; for late crop until the latter part of July; early in August for a winter crop.



For the main crop sow from the middle of May to the first of July. Thin out in the row from five to six inches apart, rows from 12 to 14 inches apart. Hoe often and deeply between the rows. Light sandy loam, richly manured is best soil. One oz. will sow about 125 feet of drill; 4 lbs. will sow an acre.

**Chantenay.** The market gardener's favorite. Fine cooking variety. Deep orange in color. Flesh very crisp and tender. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c lb. 90c.

**Danvers Half Long.** The smooth handsome roots are orange and of medium length. A heavy producer and a fine feed. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 90c.

**Ox Heart.** A thick carrot, 5 or 6 inches long and very blunt at lower end. A favorite carrot for market and home gardens. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 90c.

**Long Orange.** One of the best for stock feeding. Grows to a large size. Oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. 90c.

**Large White Belgian.** Grown for stock feeding. Very productive. Grows so much above ground that it is easily pulled by hand. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c.

**Large White Mastodon, or Short White.** Roots half long, smooth, very heavy at the shoulder, but tapering regularly at the point. Very productive. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c.

## CHICORY

**Large Rooted or Coffee.** The favorite variety. Pkt. 5c; oz. 25c.

## CELERY

**Culture.**—Sow the seed early in a hot-bed or cold-frame. As soon as the plants are three inches high, transplant in a prepared border, setting them four inches apart. When grown six inches and fine stocky plants, set in richly manured, deep soil, in rows 3 feet apart and about 9 inches from plant to plant. Water if dry weather follows transplanting.

One ounce produces about 2000 plants.

**White Plume.** The leading white celery. A handsome, crisp sort, of very easy cultivation. Pkt. 5c; oz. 25c; lb. \$3.

**Golden Self Blanching.** The best celery for early market use. Easily blanched. Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25.

**Celeriac, or Turnip Rooted Celery.** Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c.

## CRESS

**Curled or Pepper Grass.** Used as a salad dressing. Pkt. 5c; oz. 15c.

**Water Cress.** Forms a plant the leaves of which are used as a salad or dressing. Thrives only when the roots or stems are submerged in water. Pkt. 5c; oz. 50c.

## CORN—Sweet, or Table Varieties

### EXTRA GROWN STOCK—ESPECIALLY SWEET

Post Paid

#### EXTRA EARLY VARIETIES

**Golden Bantam.** Sometimes called Golden West. One of the finest sweet corns grown. Very early, tender and extra sweet. Try it; we know you will like it. **Pkt. 10c; lb. 25c.**

**Peep o'Day.** The earliest sweet corn on the market. Sweet and very productive. Fine for market or garden. **Pkt. 10c; lb. 25c.**

**Early Minnesota.** One of the best early varieties for market or garden. Stalks above five feet high. Ears long and 8 rowed. **Pkt. 10c; lb. 25c.**

#### MEDIUM EARLY VARIETIES

**Early Mammoth.** A new variety that gives very fine satisfaction. Ears large, well filled. Corn sweet and tender. Fine market variety. **Pkt. 10c; lb. 25c.**

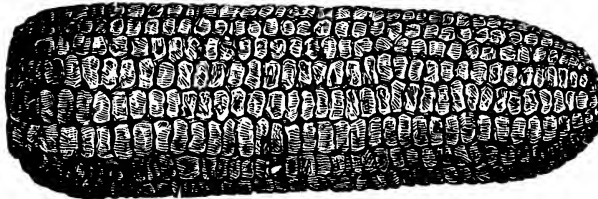
**Early Evergreen or Oregon Evergreen.** Earlier than the famous Stowell's Evergreen, but having all the good qualities of that great corn. Fine for second crop. **Pkt. 10c; lb. 25c.**

#### LATE VARIETIES

**Stowell's Evergreen.** This is the most popular and best main crop sweet corn grown. It is especially adapted to the Pacific Coast, yields heavy, is sweet and very popular. One of the best corns for green feed and ensilage grown. Grows six to eight feet high and remains in condition to use for a long time. **Pkt. 10c; lb. 25c.**

## FIELD CORN

### EXTRA FANCY, SELECTED STOCK



(Add postage if sent by parcelpost)

**Pride of Oregon.** We have secured the sale of the finest lot of Oregon Seed Corn this season ever offered on the market.

The grower, Mr. Blake, has taken first prize at every corn show held in the west, including two **FIRST PRIZES** at the great corn show held at Minneapolis, Minn.

This corn has a large ear, well filled with deep yellow kernels and is all selected for seed purposes. If you want to grow corn, you cannot get any seed that will produce with this great corn. **lb. 15c; 10 lbs. \$1.; 100 lbs. \$8.**

**Minnesota No. 13, Yellow Dent.** This variety is highly recommended by the O. A. C. and many dairymen as a great ensilage corn. A heavy producer. **lb. 15c; 10 lbs. \$1.; 100 lbs. \$8.50.**

**Leaming, Yellow Dent.** This has proven of the finest of the silo corns, producing a very large crop and is considered by many dairymen the best corn to grow for that purpose. **lb. 15c; 10 lbs. \$1.; 100 lbs. \$8.**

**Pride of the North, Yellow Dent.** Grown here for many years as silo corn, and is a good producer. **lb. 15c; 10 lbs. \$1.; 100 lbs. \$8.**

**90 Day White.** We have found that the White Pearl variety was rather late for this climate so have secured an early white corn that is as good a producer and quite a little earlier. Extra large ears with a deep kernel. **Lb. 15c; 10 lbs. \$1.; 100 lbs. \$8.**

**St. Charles White.** A pure, white corn with red cob. Large ears, a good yielder. Especially recommended as an ensilage corn. **Lb. 15c; 10 lbs. \$1.; 100 lbs. \$8.**

## POP CORN

**White Rice.** The best variety for this climate. Ripens early and produces a large crop. Lb., postpaid, 25c; not postpaid, lb. 20c; 10 lbs. \$1.50.

## CUCUMBERS

In this latitude it is useless to plant in the open ground until nearly the first of May. Make hills two feet in diameter and about six feet apart, and enrich with well-rotted manure. Plant a dozen or more seeds, covering half an inch deep. When all danger from insect is over, pull all but three or four of the strongest plants. One ounce for fifty hills; two pounds per acre when planted in hills.



**Pkt. 5c; oz. 15c; lb. \$1.25**

**Early Short Green, or Early Frame.** An excellent sort for both table and pickling. Small and early.

**Chicago Pickling.** The great pickling variety. An old favorite.

**Peerless White Spine.** The best cucumber for all purposes, as it is good for table use and cannot be beat for pickling.

**Improved Long Green.** The old family favorite. Very productive and a fine cucumber for family or market. **Pkt. 5c; oz. 15c; lb. \$1.75.**

**Lemon Cucumber.** This dainty little cucumber resembles a lemon both in form and color, having a distinctive flavor superior to and not found in any other cucumber. **Pkt. 5c; oz. 20c.**

**Echinocystis, Lobata—Wild Cucumber.** A rapid growing climber. Very good for covering old fences or trellises.

Hardy annual. **Pkt. 5c; oz. 15c.**

## ENDIVE

This is a hardy vegetable, cultivated principally for a winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

**Green Curled.** A standard sort for fall and winter. **Pkt. 5c; oz. 15c; ¼ lb. 35c.**

**White Curled.** A beautiful variety with curled, mossy leaves for early use. **Pkt. 5c; oz. 15c.; ¼ lb. 50c.**

## EGG PLANT

**Black Beauty** An extra early, quick-growing, vigorous variety, handsome and very uniform. Color, deep blackish purple. Splendid market sort. **Pkt. 10c; oz. 50c.**

## KALE

**Dwarfed Green Curled.** Leaves curled and a bright green. **Pkt. 5c; oz. 20c.**

**Tall Scotch—Green Curled.** Grows about two feet high; leaves dark green curled and wrinkled; very hardy. **Pkt. 5c; oz. 20c;**

**Thousand Headed.** Grows very large. Used mostly for stock feeding. **Pkt. 5c; lb. 65c.. Postpaid 75c.**

## KOHL RABI

**Early White.** Best table variety. **Pkt. 5c; oz. 25c.**

## LEEK

**Large Rouen.** The favorite variety. **Pkt. 5c; oz. 25c.**

## LETTUCE

Sow in the open ground as early as possible, barely covering the seed. If the hot bed is used let it be started quite early. Give but little heat and plenty of water and air on fine days. Let plants in the bed be about four inches apart. As they

increase in size thin them out or they will become weak. One-half ounce will sow one hundred feet of drill.

**Hanson.** The leading head variety. Crisp, tender and well-flavored. **Pkt. 5c; oz. 15c; lb. \$1.25.**

**Early Prize Head.** One of the very best kinds for the garden. A large, loose head, tender and crisp. **Pkt. 5c; oz. 15c; lb. \$1.25.**

**Grand Rapids.** The best early kind for forcing. A favorite of gardeners. **Pkt. 5c; oz. 15c; lb. \$1.25.**

**Brown Dutch.** Forms a large, solid head, sweet, tender, and of a good flavor. Outer leaves tinged with brown. Very hardy. **Pkt. 5c; oz. 15c; lb. \$1.25.**



**May King.** A grand new butter lettuce. Exceedingly rich, tender and buttery. Fine for open ground or forcing. **Pkt. 5c; oz. 15c; lb. \$1.25.**

**Simpson's Early Curled.** A leading market variety. Very tender. **Pkt. 5c; oz. 15c; lb. \$1.25.**

**New York or Wonderful.** The best head lettuce for market growers. This is the mammoth head lettuce so popular in California, from whence it is shipped to the northern markets, arriving in splendid condition. The immense heads are solid, heavy, beautifully blanched to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. "New York" is a hardy, rapid grower, deep rooted and resistant to drought;

a slow seeder and sure to head. **Pkt. 10c; oz. 35c; ¼ lb. \$1. lb. \$3.50.**

## MELONS

### MUSKMELON OR CANTALOUPE

Plant in rich, wet land, using one ounce to 100 hills or two or three pounds to the acre.

**Large Yellow Cantaloupe.** The flesh is light yellowish green, very sweet, crisp and delicious. **Pkt. 5c; oz. 15c; lb. \$1.25.**

**Small Green Nutmeg.** The old favorite. Fine for home or market. Flesh thick and green. **Pkt. 5c; oz. 15c; lb. \$1.25.**

**Emerald Gem.** A salmon-fleshed variety of remarkable fine flavor and fine quality. Fruit medium-sized, globular, slightly flattened at the ends; skin only slightly netted; very thick and well ripened close to the rind. **Pkt. 5c; oz. 15c; lb. \$1.25.**

**Casaba, True Stock.** This is an excellent melon and much sought after. Large, rather oblong, well ribbed, skin thin, netted, and of greenish yellow color. Flesh 2 to 3 inches thick, delicious and melting. **Pkt. 5c; oz. 15c; lb. \$1.50.**

### WATER MELONS

**Early Fordhook.** An early variety of the best quality. Is especially sweet in flavor, crisp and brittle and well ripened to a very thin rind. **Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.**

**Kleckley's Sweet, or Monte Cristo.** A splendid sort for home use or near markets. Vine vigorous and productive; fruit of medium size, oval; color dark mottled green in two shades, forming indistinct stripes. Flesh a beautiful rich red, exceedingly sweet and tender. **Pkt. 5c; oz. 15c; lb. \$1.**

**Sweetheart.** This melon has become very popular as a shipping melon. Vine vigorous and productive, ripening its fruit early. Fruit large, oval, very heavy, uniformly mottled dark and very light green, rind thin but firm; flesh bright red, firm, solid but very tender, melting and sweet; fruit retains its good quality for a long time after ripening. **Pkt. 5c; oz. 15c; lb. \$1.**

**Ice Cream, or Peerless.** A grand favorite and standard variety. Superior in every respect. Has beautiful crimson core, which is always fine grained, cannot be surpassed in flavor; very prolific, magnificent grower. **Pkt. 5c; oz. 15c; lb. \$1.**

## CITRON

**Red Seeded.** Round and handsome for preserving only. **Oz. 15c; lb. \$1.25.**

## MUSTARD

**Southern Giant Curled.** **Pkt. 5c; oz. 15c; lb. \$1.**

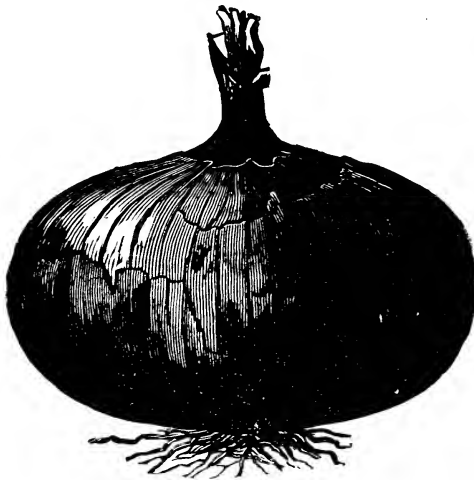
**White English.** Leaves mild and tender when young. **Pkt. 5c; oz. 10c; lb. 75c.**

## ONIONS

**PURE SEEDS.** Highest tests. We pride ourselves on selling the very best onion seed that can be produced. Try it.

**White Portugal or Silverskin.** A good variety for table or market. Skin and flesh pure white; mild and flat shape. The best white onion. **Pkt. 10c; oz. 25c; ¼ lb. 75c. lb. \$2.50.**

**Prizetaker.** The genuine. The handsomest and largest globe onion. A perfect globe shape, with bright straw colored skin. The necks are small and the onions always ripen up hard. **Pkt. 10c; oz. 20c; lb. \$2.**



**Oregon Yellow Danvers.** The bulbs are large, of a half globe shape, with small necks. **Pkt. 10c; oz. 25c; lb. \$2.65**

**Yellow Flat Danvers.** A well known variety that does fine here. **Pkt. 5c; oz. 15c; lb. \$1.75.**

**Yellow Globe Danvers.** A very handsome globe shaped variety of large size, with thin, yellowish skin, white flesh, fine grained, mild, very firm and a good keeper. **Pkt. 10c; oz. 20c; lb. \$2.**

**Australian Brown.** The skin is thick and the color a dark brown; the longest keeping onion on the market. **Pkt. 5c; oz. 15c; lb. \$1.75.**

**Large Red Wetherfield.** A standard variety; one of the most productive kinds, even in poor soil. **Pkt. 5c; oz. 20c; lb. \$2.**

**Southport White Globe.** A pure white, globe-shaped variety. Forms handsome, hard onions with wax-like, pearl white flesh. Is used a great deal for green onions, owing to the clear, white stem. **Pkt. 10c; oz. 25c; ¼ lb. \$1.; lb. \$2.50**

**White Bunching.** Very early. Very mild flavor and fine quality. Is used for green onions. **Pkt. 10c; oz. 25c; lb. \$2.50.**

**Extra Early Barletta.** Is a white onion forming small onions about one inch in diameter. Fine for pickles. **Pkt. 10c; oz. 40c.**

**White Bermuda.** A very early variety, used largely in the South as an early market onion, when the seed is sown in the fall and the onions harvested in the spring. It is mild and of particularly fine flavor. The color is a pinkish straw color, and shape is flat. **Pkt. 10c; oz. 50c; ¼ lb. \$1.25; lb. \$4.**

## ONION SETS

We make a specialty of onion sets, and have the largest trade in the city on same. On account of the market we do not quote prices, as the price is subject to changes. Write for prices or send in your order and we will fill it at market prices at time order is received.

## PARSLEY

Used for flavoring soups, meats, and garnishing.

**Double Curled.** A curled variety, very hardy and easy to grow. Deep rich

green, and by many preferred to the extremely curled varieties. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.**

**Hamburg, or Turnip Rooted.** A plain leafed variety forming a long, thick edible root. **Pkt. 5c; oz. 15c.**

## PARSNIPS

**Hollow Crown.** Root white, very tender, with smooth, white skin. **Pkt. 5c; oz. 15c; lb. \$1. Postpaid.**

## PEPPER

Sow the seed early in hotbeds, or later when the weather becomes warm, in open beds. When two or three inches high, transplant to a warm, mellow soil, in rows 18 inches apart and a foot apart in the rows. Guano and hen manure are excellent fertilizers and will greatly increase the yield. **Pkt. 10c; oz. 65c.**

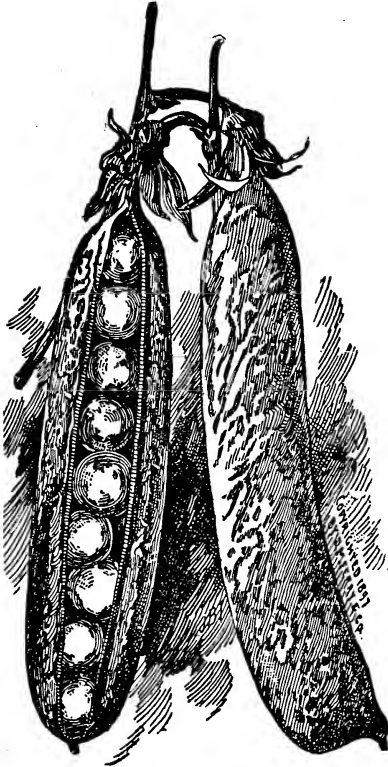
**Ruby King.** Very large, sweet and mild; bright scarlet.

**Large Bell, or Bull Nose.** Large, mild, thick-fleshed variety; one of the best for stuffed pickles.

## GARDEN PEAS

(If wanted by mail, add parcel postage.)

We offer a very choice selection of peas that are especially adapted for this climate. In planting, plant an early, medium and late variety and secure a succession of crops.



**Burpee's "Blue Bantam."** Unequaled for extreme earliness, superb quality, and unusual productiveness. The dwarf vigorous vines average 15 inches in height and carry really enormous crops of large, deep bluish-green pods. The handsome pointed pods average 4 inches long and are tightly packed with seven to eight extra large, deep bluish-green peas. These peas are not only large in size, but of most luscious flavor. The pods are ready to pick as early as an American Wonder, and almost double the size. **Pkt. 10c; lb. 30c; 10 lbs. \$2.75.**

**Alaska.** An extremely early variety that can be planted either in fall or early spring. Grows from 20 to 30 inches in height and all mature at one time. Fine for early market. **Pkt. 10c; lb. 25c; 10 lbs. \$2.25.**

**Gradus of Prosperity.** An extra early pea with a large pod. Height, two feet. One of the very best early varieties. Pods well filled with large sweet, tender peas. Fine for market and home garden. **Pkt. 10c; lb. 30c; 10 lbs. \$2.75.**

**American Wonder.** One of the best known and best liked peas on the market. A good yielder, very early, and fine sweet peas. A great favorite for family use. **Pkt. 10c; lb. 30c; 10 lbs. \$2.75.**

**Premium Gem, or Little Gem.** One of the finest of the extra early peas. Peas are very sweet, wrinkled, tender and crisp. Dwarf. **Pkt. 10c; lb. 30c; 10 lbs. \$2.75.**

**Nott's Excelsior.** A fine early dwarf pea. Pods are always well filled with sweet tender peas. Fine for market and home garden. **Pkt. 10c; lb. 30c; 10 lbs. \$2.75.**

**Little Marvel** An extremely valuable variety, especially suited to small home gardens, and early market. It matures very early and produces large crops. Vines 15 to 18 inches high. The pods are dark green, good size, produced in pairs and are closely filled with six to seven pear of extra fine flavor. **Pkt. 10c; lb. 30c; 10 lbs \$2.75.**

### MAIN CROP VARIETIES

**Improved Stratagem.** One of the best of the large podded sorts. The pods are of immense size; well filled with wrinkled peas of the finest flavor. We urge you to try it as we know that you will like it. **Pkt. 10c; lb. 30c; 10 lbs. \$2.75.**

**Yorkshire Hero.** One of the largest sweet wrinkled varieties. Pods of a good size and well filled. Medium late; bears a long time. Height 30 inches. **Pkt. 10c; lb. 30c; 10 lbs. \$2.50.**

### IMPROVED DWARF TELEPHONE

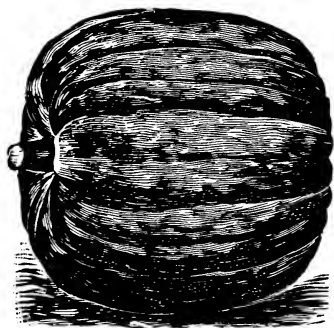
Dwarf Telephone is the famous old Telephone without its long vines; of healthy, stocky growth; very productive; pods large, broad, straight and remarkably well filled with large, sweet peas of delicious flavor, very desirable. Eighteen to twenty inches high. **Pkt. 10c; lb. 30c; 10 lbs. \$2.75.**

**Telephone.** The best mid season variety. Is tall and large; wrinkled peas of fine quality. Grown by gardeners as a main crop for market. Fine for home use. **Pkt. 10c; lb. 30c; 10 lbs. \$2.75.**

**Champion of England.** One of the most popular tall wrinkled late varieties. Is very prolific and hardy, and the peas are of fine, rich quality. **Pkt. 10c; lb. 30c; 10 lbs. \$2.75.**

### PUMPKIN

**CULTURE.**—Care should be taken to keep the different varieties apart and also to keep them well separated from other vining plants, as they readily amalgamate and deteriorate.



**Winter Luxury** The best flavored pie pumpkin grown; enormously productive; excellent keeper; medium size; color golden russet, finely netted; flesh, deep golden, sweet, tender and very thick; none better. **Pkt. 5c; oz. 10c; ¼ lb. 35c; lb. \$1.25.**

**Large Yellow, or Connecticut Field.** Large, round, deep glossy yellow. Vines vigorous and very productive; good keeper; grown extensively for stock feeding. **Oz. 10c; ¼ lb. 35c; lb. \$1.**

**King of Mammoths.** Grows to an enormous size. **Pkt. 5c; oz. 10c; lb. \$1.**

**Large Sweet Cheese.** A popular variety; fruit flattened, skin mottled light green and yellow; flesh yellow, thick, tender, very nutritious and of excellent quality: a most productive variety. **Pkt. 5c; oz. 10c; ¼ lb. 35c; lb. \$1.**

**Sweet, or Sugar.** A handsome and productive small pumpkin, 10 to 12 inches in diameter, round, flattened; skin orange, flesh deep yellow, fine grained and very sweet. **Pkt. 5c; oz. 10c; ¼ lb. 35c; lb. \$1.25.**

### RADISH

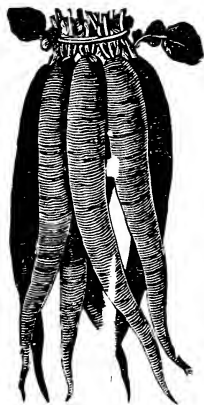
**French Breakfast.** A popular variety for market or forcing; it is about two inches long and decidedly stump rooted; color, bright rose, with bottom of root and the tail pure white. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.**

**White Strasburg.** A large white variety for late summer use; rather thick at the shoulder and tapering to about five inches in length; keeps firm and solid a long time. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.**

**Half Long.** The variety most largely used by gardeners in California; it is about three inches long, with half slump root and sloping top; color carmine, quick growing and hardy. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.**

**Long Scarlet Short Top.** The best known and most popular long variety; color bright carmine, flesh firm, about six inches long, the top growing out of the ground about one inch. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.**

**Brightest Long Scarlet.** A very showy long variety, thick at the shoulder and tapering, bright rose scarlet with distinct white tops. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.



**Icicle.** A handsome white variety, about five inches long, with sloping top and pointed root; quick growing, brittle and mild in flavor. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.15.

**Scarlet Turnip, White Tipped, or Rosy Gem.** One of the most popular and attractive short varieties, it is globe-shaped, bright rose carmine, with bottom and tip clear, clear white stems and leaves small, very valuable for forcing as well as for the house garden and market. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.

**Early Scarlet Globe.** A popular forcing variety owing to its quick growth and fine scarlet color, shape a trifle oblong. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.

#### WINTER RADISHES

**China Rose Winter.** Bright rose color; flesh white, firm and of superior quality. Pkt. 5c; oz. 15c; lb. \$1.15.

**Mammoth White China.** Roots from 10 to 12 inches long, and are solid, tender and crisp. Pkt. 5c; oz. 15c; lb. \$1.25.

**Long Black Spanish.** Flesh white; one of the latest and hardiest. Pkt. 5c; oz. 15c; lb. \$1.15.

#### RUBARB OR PIEPLANT

**Victoria, or Mammoth.** Very large, finest cooking variety. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

#### SPINACH

An easily grown plant, the seed of which may be planted in the fall to secure good spinach early in the spring. The soil should be rich.

**Bloomsdale Savoy.** A favorite market variety. Leaves large, round and thick. One of the earliest sorts. Pkt. 5c; oz. 10c; lb. 65c.

**Prickly.** Is very hardy and easily grown; bears large, smooth leaves, which are shaped like an arrow point. Color bright green. Seed irregular, with three or four sharp shaped points. A fine winter and spring variety. Pkt. 5c; oz. 10c; lb. 65c.

**Round, Thick Leaved.** A large-leaved bright green variety. Leaves rather smooth and rounded at the top. A good variety for late spring and summer. Seed round. Pkt. 5c; oz. 10c; lb. 75c.

**Long Standing.** A deep green variety that stands a long time without going to seed. Pkt. 5c; oz. 10c; lb. 75c.

**Victoria.** A long-standing variety with round leaves. Deep green and hardy, and remains ready for use for a long time. Pkt. 5c; oz. 10c; lb. 75c.

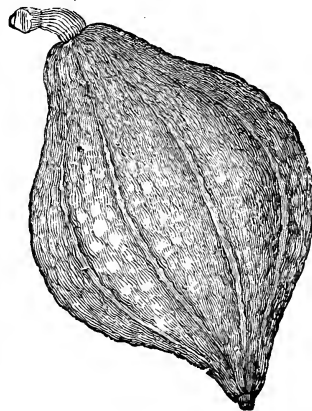
#### SQUASH

**Mammoth Summer Crookneck.** Flesh tender and of good quality. Pkt. 5c; oz. 10c; lb. \$1.25.

**Mammoth White Bush Scallop.** The best summer sort for the market. Pkt. 5c; oz. 10c; lb. \$1.25.

**Hubbard.** The best seller and most popular squash; keeps through the winter. Oz. 15c; lb. \$1.50.

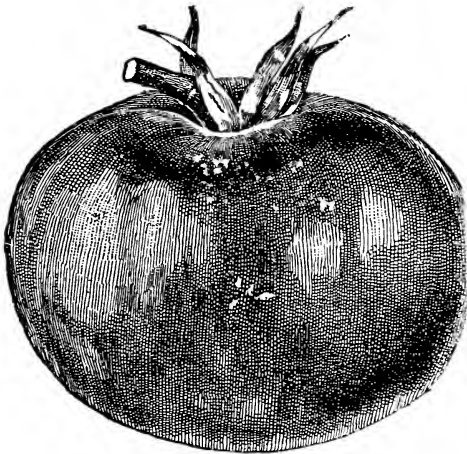
**Golden Hubbard.** The same size, shape and quality as the well known Hubbard squash, except that it is a bright red or golden color, and some what earlier; it is also a long keeper, vigorous and wonderfully productive; in flavor it has no equal. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50.



## SALSIFY OR VEGETABLE OYSTER

**Mammoth Sandwich Island.** The leading tender variety. Produces a large crop of straight, smooth roots. Pkt. 5c; oz. 20c; lb. \$2.

## TOMATOES



**Perfection.** One of the best; medium early; round and smooth. Pkt. 5c; oz. 30c.

**Earliana.** The earliest, large and smooth tomato; the most perfect of all tomatoes; of large uniform size and beautiful red color. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1.

**Chalk's Early Jewel.** A wonderful new variety, in that it is early and bears continuously through the season; the fruit is large, smooth, uniform and well ripened clear to the stem. And flavor and quality are especially fine. Color is bright scarlet. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1.15.

**Husk Tomato, or Ground Cherry.** Used mostly for preserves. Pkt. 10c; oz. 50c.

**Bonny Best.** An early scarlet-fruited tomato which has proven a success all over the country. It is smooth, very even in size, very solid and also very prolific. Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.20.

**Dwarf Champion.** A dwarf variety, sometimes called the tree tomato on account of its upright growth and its ability to stand alone without trellising. Fruit medium-sized, smooth, uniform and of a purplish-carmine color. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1.

**Red Cherry.** The fruit is small and globe-shaped, about one to two inches in diameter. It is very valuable for preserving. Pkt. 10c; oz. 50c.

## SUNFLOWER

**Mammoth Russian.** The favorite kind. Lb. 20c; postpaid 25c.

## TOBACCO

**Connecticut Seed Leaf.** Best adapted for general use. Does well here. Pkt. 10c; oz. 75c.

**Havana.** Of fine texture and delicate flavor. Pkt. 10c; oz. 75c.

## TURNIPS

For early use sow the small sorts as soon as the ground can be worked in the spring. For fall and winter use, sow during July, August and September.

### EARLY GARDEN TURNIPS

**White Egg.** Is clear white, excellent flavor, sweet and mild. Favorite for table use. Pkt. 5c; oz. 10c; lb. \$1.15.

**Early White Flat Dutch.** Flesh white, firm tender and sweet. Pkt. 5c; oz. 10c; lb. \$1.

**Early Purple Top, Strap Leaved.** The leading white flesh variety, and one of the best for all purposes. Keeps good. Pkt. 5c; oz. 10c; lb. \$1.

**Early White Milan.** Pure white, sweet and tender. A leading market variety. Pkt. 5c; oz. 15c; lb. \$1.75.

**Orange Jelly, or Golden Ball.** One of the most delicate and sweet flavored yellow fleshed varieties introduced. Fine as a table variety. Pkt. 5c; oz. 15c; lb. \$1.15.

**Early Snowball.** Early round turnip, maturing in seven weeks, is of perfect form, snowy whiteness, crisp, solid and of fine flavor. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

## MAIN CROP TURNIPS

**Purple White Top Globe.** The favorite large variety, both as field and table variety. Handsome and of excellent quality. **Pkt. 5c; oz. 10c; lb. \$1.**

**Pomerian White Globe.** A very productive kind. Grows large and makes excellent feed for stock. **Pkt. 5c; oz. 10c; lb. \$1.**

**Yellow Aberdeen.** Round, medium size, light yellow. A great favorite with the dairymen. **Pkt. 5c; oz. 10c; lb. \$1.**

**Cow Horn.** Grows half out of the ground and is a rapid grower. Immense yielder. Delicate and well flavored. **Pkt. 5c; oz. 15c; lb. \$1.**

## RUTABAGA

(If wanted by mail, add 10c per lb. for postage)

**Best of All.** Flesh yellow, fine grained, and heavy yielder. **Pkt. 5c; oz. 15c; lb. \$1.**

**American Purple Top.** A favorite variety; grows to a large size and produces immense crop. **Pkt. 5c; oz. 15c; lb. 90c.**

**Sweet Russian.** Most excellent for table and stock, sweet and rich. **Pkt. 5c; oz. 15c; lb. \$1.**

## FLOWER SEEDS

## THE "SPENCER" TYPE OF SWEET PEAS

## Special Re-selected Stock for 1921

By reason of their increased size, waved or fluted appearance and charming blendings of harmonious colors, the new "Spencer" type may be appropriately described as Truly Gigantic "Orchid Flowered." The flowers are not only of extremely large size, and attractively waved or crinkled, but are distinct also in having the outer edges of the standard and wings serrated. The standard is broad and tall; the wings are broad, well spread and generally held erect by the keel.

**White Spencer.** A pure white flower of enormous size, beautifully fluted and crinkled. Of splendid substance. **Pkt. 10c; oz. 35c.**

**King Scarlet Spencer.** Bright, crimson scarlet, largest size, wavy standards. Very long stems, the finest bright scarlet. **Pkt. 15c; oz. 50c.**

**Constance Hinton.** The largest White Spencer. Slight tint of pink when first blooming. Very fine. **Pkt. 10c; oz. 35c.**

**Mrs. Hugh Dickinson.** A beautiful combination of Buff, Apricot and Rose. **Pkt. 10c; oz. 35c.**

**Elfreda Pearson Spencer.** Light pink or white, shaded and edged. **Pkt. 10c; oz. 35c.**

**Florence Morse Spencer.** White and Blush pink edge. **Pkt. 10c; oz. 35c.**

**Hercules.** A very large clear pink. Long stems. **Pkt. 10c; oz. 35c.**

**Helen Lewis.** A beautiful, orange pink. One of the finest Spencers. Bright orange standard. **Pkt. 10c; oz. 35c.**

**Florence Nightingale.** A beautiful shaded lavender and rose. **Pkt. 10c; oz. 35c.**

**Margaret Atlee.** The Spencer Supreme. Margaret Atlee is a rose-salmon; pink on a creamy a rich buff ground, soft color, and extremely attractive, both as individual flowers and in the bunch. The standard is large and wavy and inclined to double under favorable conditions. **Pkt. 10c; oz. 35c.**

**Asta Ohn.** Lavender suffused with mauve. Of perfect form, of largest size blossoms on long, strong stems; very vigorous. **Pkt. 10c; oz. 35c.**

**Countess Spencer.** Pink. Flowers extremely large, beautifully expanded, crumpled and waved. Color silvery white, suffused with soft shell pink, deeper at the outer edges. **Pkt. 10c; oz. 35c.**

**Primrose Spencer.** Color, true primrose. Very vigorous, free flowering, excels in beauty of form, length of stem and keeping quality. **Pkt. 10c; oz. 40c.**

**Our Superb Mixture.** True Spencers Only. A splendid mixture, carefully proportioned and blended to produce pleasing and harmonious combinations of color, containing the most beautiful shades and varieties of the wonderful Spencer type. These are not seedlings, but carefully selected named varieties that retain all their purity and brilliancy of color. **Pkt. 10c; oz. 30c; lb. \$3.**

**White's Extra Fancy Grandiflora.** Mixed. A fine selection of the different varieties, carefully blended together to make a beautiful showing of the different colors in a harmonious effect. Postpaid. **Pkt. 5c; oz. 15c; ¼ lb. 50c; 1b. \$1.50.**

#### NASTURTIIUM

**Nasturtium.** Fancy tall mixed. A fine selection of the different climbing varieties in all colors. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1b. \$1.25.**

**Nasturtium.** Tom Thumb or Dwarf. A fine selection of the dwarf variety. **Pkt. 5c; oz. 15c; ¼ lb. 40c.**

**Nasturtium.** Golden Yellow. A magnificent climbing variety. **Pkt. 5c; oz. 15c; ¼ lb. 40c. postpaid.**

**Nasturtium.** King of the Blacks. A deep red, nearly black variety. Tall. **Pkt. 5c; oz. 15c; ¼ lb. 40c.**

#### FLOWER SEEDS

We carry a large stock of the finest flower seeds and can supply all the leading kinds, including all the colors of Pansies, Asters, Carnations, Pinks, etc. Order the kind you want and if we do not have it, we will get it and send it to you at once.

On account of lack of space in catalogue we do not find it profitable to catalogue all the various kinds.

### VEGETABLE PLANTS AND ROOTS

We handle the output of several large growers and can furnish fine transplanted plants during the season.

Transplanted plants are much stronger and better rooted and do far better than ordinary plants sold on the market.

We do not name the various named varieties that we handle, as it varies with the seasons, but will be glad to send you a list at any time when you are ready to plant.

For those wanting large lots, write for special prices, stating quantity wanted.

During the season, we handle Cabbage, Tomato, Cauliflower, Kale, Boccoli, Pepper and various other garden plants and would be glad to quote prices at any time.

**Rubarb Roots.** Good strong roots at 10c each, postpaid, 15c; 6 for 50c, postpaid, 65c.

**Asparagus Roots.** Two year old plants, good and strong Doz. 30c, postpaid, 40c; 100, \$1.50, by freight or express collect.

### SEED POTATOES

Send for list and prices when you are ready to buy, as stock and market changes are so that we are unable to quote for any length of time. We carry all the leading varieties at the market prices.

### We are headquarters for Alfalfa, Clover and Grass Seeds

#### IMPORTANT! READ CAREFULLY!

Clover, Grass and Field Seeds are subject to market changes, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity wanted; or send in your order at catalogue prices. **We guarantee that we will give you full value for the money sent, whether the price at the time you order be higher or lower, or if the difference is very great, we will notify you before shipment.**

### ALFALFA

**(Medicago Sativa.)** One of the most valuable forage or pasture grasses being very nutritious, both as a green feed and as a hay. Often bears two to five crops a year and with irrigation, six or more. It does well in most any climate and improves the soil that is sown with it. The western part of Oregon, including the Willamette Valley, Rogue River, Umpqua and other valleys, are now raising alfalfa successfully and it is proving a very profitable crop. **Price per lb. 35c; postpaid, 40c; 100 lbs. \$30.**

## **CLOVER SEED**

### **THE LARGEST DEALERS IN THE WILLAMETTE VALLEY IN CLOVER SEEDS**

We make a specialty of handling the very best grass and clover seeds that can be obtained. We have a large power cleaner and clean all our seeds before offering them to the market. The days of sowing any old seeds are past, as the up-to-date farmer knows that it pays to seed only with the best on the market. You will find our prices are as low as seeds of like quality can be sold for; the quality of the seeds we handle is so much better than some dealers handle, that there is no comparison and they usually want as much for seeds of inferior quality as we ask for seeds of, the **HIGHEST QUALITY**. Add parcel postage if sent by mail.

**Red Clover.** (*Trifolium Pratense*). The standard clover for all purposes. Yields the heaviest crop of any variety, except alfalfa, makes superior hay, especially mixed with timothy. **Lb. 30c; postpaid 40c; 100 lbs., Extra Fancy \$28.50; Fancy, \$27.50.**

**Mammoth Red Clover.** Similar to Red Clover, but coarser, taller and more hardy. **Lb. 35c; postpaid, 60c; 100 lbs. \$32.**

**Alsike Clover.** Alsike succeeds on wet, cold and stiff lands, as well as growing any place that red clover will grow. Makes fine hay, as it is not as coarse as red clover. **Lb. 30c; postpaid, 40c; 100 lbs., Fancy \$30.; Choice, \$28.50; Prime, \$26.50.**

**Alsike for Pastures.** Usually have in stock, different grades of alsike and mixed alsike suitable for pastures at reduced prices. Write us if interested and we will send samples and quote prices.

**Alsike and White Mixed.** This mixture is used for pastures and is quite popular. **Lb. 35c; 100 lbs. \$30.**

**White Dutch.** (*Trifolium Repens*). Dwarf spreading vine-like variety with white blossoms; used largely for bee pasture. It is also an excellent pasture for either sheep or cattle; also makes a beautiful lawn. Sow 10 pounds to the acre. **Fancy, lb. 75c; postpaid 85c.**

**Melilotos; Alba Sweet Clover.** Sweet Clover is coming into its own. Instead of being the despised roadside weed that it once was, it is now being planted extensively, as few plants grow better in heavy clay soil, alkali ground and many other places where the ordinary grasses cannot exist. Sweet Clover will provide more feed per acre than any other form of grass. **Lb. 30c; 100 lbs. \$25.**

**Melilotos Indicia.** Yellow Blossom Sweet Clover. This is the variety that is used so extensively in California as a cover crop with such good results. **Lb. 10c; postpaid 20c; 100 lbs. \$9.**

## **GRASSES**

Add parcel postage for all grass seeds ordered by mail; prices below do not include postage. All prices subject to market changes.

**Orchard Grass.** One of the most valuable pasture grasses; produces an immense quantity of forage, and hay of best quality. After being sown comes up quickly and yields very heavy. Suitable to sow under trees as it does well in the shade. Fine for burnt lands, as it will catch if sown in the ashes. **Lb. 30c; 100 lbs \$25**

**English Rye Grass.** Perennial. One of the best grasses for this country, as the moist climate is adapted to its growth. It grows rapidly and makes a good showing within a month from the time of sowing. Does fine both on hill and bottom land. A good lawn grass but a little coarse. **Lb. 16; 100 lbs. \$15.**

**Timothy.** We have secured some very fine Timothy seed from Idaho; Idaho having the reputation of growing the finest seed obtainable. As we buy direct we are in a position to quote low prices. If you are going to need any quantity write for special prices. Timothy makes the finest and best quality hay, bringing the highest prices on the market. It produces a larger crop than any other grass and always has a ready sale. In former times Western Oregon was a great timothy producing country but in recent years it has been neglected. **Lb. 15c; 100 lbs. \$13.50.**

**Italian Rye Grass.** A quick growing grass attaining a height of 2½ feet to 4 feet. Thrives best on soils that are slightly moist, and will even stand considerable

overflow. Grows easily and makes an abundance of hay or pasture. Lasts from 2 to 6 years. Sow 15 to 20 lbs. to acre. **Lb. 16c; 100 lbs. \$15.00.**

**Mesquite, or Velvet Grass.** This is one of the most hardy grasses grown here and makes an abundance of pasture both early and late in the season. Also used for hay quite extensively. Fancy hulled seed. **Lb. 25c; 100 lbs. \$22.50**

**Red Top, Fancy.** Sown for pastures and lawns, either alone or as a mixture. Very desirable for wet lands and considered next to timothy as a grass hay. **Lb. 30c; 100 lbs. \$26.**

**Oregon Rye Grass** We have some very good, local grown rye grass that is a good buy. **Lb. 15c; 100 lbs. \$10.**

**Kentucky Blue Grass.** This is used mostly for lawns here, but on some lands make a fine pasture. Heavy, re-cleaned seed. **Lb. 50c; postpaid, 60c.**

**Creeping Bent Grass.** This is one of the finest lawn grasses and is grown very extensively here for that purpose. Makes that fine velvet lawns you see. **Lb. 75c; postpaid, 85c.**

### FANCY LAWN GRASS SEED

More fine lawns in the city have been made from our mixture than any other. We only use the choicest, re-cleaned, heavy grass seeds. This mixture of ours will produce a fine velvety thick lawn in a few weeks' time, if the ground is properly prepared and the seed sown properly. Do not buy cheap seed; it means only a poor lawn. Sow our seed at the rate of one pound to 400 square feet of space. **Lb. 60c; 10 lbs. \$5.50.**

**Shady Nook Lawn Grass.** This is a special mixture for shady places, like under trees, in the shade of a house or similar places. **Lb. 50c; 10 lbs. \$4.75.**

### MIXED GRASSES

We will mix any seeds that you may want as you want it. Send us a list of what you want or what you want it for, and we will quote you accordingly.

**Pasture Mixture.** We have a fine mixture put up for pastures, consisting of English Rye Grass, Orchard Grass, Alsike Clover, White Clover, Red Top, Mesquite, etc., and offer it at a very low price, considering the quality. **Lb. 15c; 100 lbs. \$12.50.**

### FARM AND FIELD SEEDS

We want to call your attention to our stock of Farm and Field Seeds. We are making a special effort to please those who want GOOD SEEDS and PURE SEEDS. We have at a large outlay installed a large power cleaner, equipped with all the latest cleaning devices, to handle this trade right. We clean all our seeds and seed grain thoroughly before offering on the market. Buy our re-cleaned seed grain and seeds, and sow nothing but clean seed; you have enough foul seeds now without sowing any more.

### ALL PRICES SUBJECT TO MARKET CHANGES

**Seed Wheat.** We mention a few of the leading varieties grown here.

**Red Fife Spring Wheat.** This variety can be sown quite late and is adapted to nearly all the different soils of the valley and Western Oregon and Washington. **100 lbs. \$4.**

**Foisa.** This variety is sown both in fall and spring and is grown very extensively. **100 lbs. \$4.**

**Kinney.** This is a large red wheat that outyields any variety grown here and is well adapted for level and bottom land. Sown in fall and early spring. **100 lbs. \$4.**

**White Winter.** This is the old well known variety that is so popular and does well here as a winter wheat. Prices on application.

We usually have in stock other varieties and would be glad to furnish any variety wanted if possible to obtain at the time.

**Grey Winter Oats.** This is a leading variety and can be sown during the fall, winter and early spring. It yields very heavy and is a very valuable variety both for grain and hay. The favorite oat of this vicinity. **100 lbs. \$3.**

**White Spring Oats.** We carry all the leading varieties. Write for prices.

**Barley.** Spring. We have some good valley barley that has been re-cleaned in good shape. **100 lbs. \$3.**

**Oregon Vetch.** This variety is sown both in the fall and early spring here and is used both for a hay crop and green feed. Also used for plowing under as a fertilizer. Produces very heavy crops of fine hay and feed. **Lb. 10c; postpaid, 20c; 100 lbs. \$7.50.**

**Cheat Seed.** This is used as a hay crop and especially on wet land. Makes a fine hay if handled right. **100 lbs. market price.**

**Buckwheat (Japanese).** Is earlier than the other varieties. Is excellent for bee pasture. **Lb. 10c; 100 lbs. \$9.**

**Buckwheat (Silverhull).** A very good and popular variety. Grain is of a light color, rounder than the common variety, thinner husk, earlier and yields more. **Lb. 10c; 100 lbs. \$9.**

**Flax Seed** Recleaned for planting. Flax should be grown more as it is a profitable crop at the price that it has been selling for the last few years. **Lb. 15c; 100 lbs. market price.**

**Dwarf Essex Rape.** This great forage crop is becoming more popular every year. Yields an immense amount of green feed. **Lb. 15c. 100 lbs. \$11.50.**

**Thousand Headed Kale.** One of the most valuable forage crops for this valley ever introduced. It produces a mass of thick, curly green leaves, rich and succulent, which are eagerly eaten by sheep, cattle, horses, poultry and hogs. Especially recommended for green feed during the dry summer and also during the cold weather of winter, as it is good at all times. Makes the most rapid growth if sown in the spring, but can be sown in summer and fall for winter feed. **Pkt. 5c; oz. 10c; lb. 65c; by mail postpaid 75c.**

## SUDAN GRASS

Sudan Grass is strictly an annual and dies each year like Millet and must be seeded again each spring. This makes it fit admirably into any system of rotation and while it does not benefit the soil like legumes it does afford a change in crop and this is a good thing for the soil.

Summing it all up, Sudan Grass is a hay green feed crop which seems to be especially adapted to the drier regions of the middle western states. **Price, per lb. 25c; postpaid, 35c; 100 lbs. market price.**

**Seed Rye.** Rye is one of the most profitable crops in the grain line. It is a sure cropper and produces a good crop every season. Fine for pasture. Recleaned seed. **\$3.50 per 100 lbs.**

**Kaffir Corn.** Yields a large crop of fodder during season. Grows four or five feet high with numerous large leaves. The seed makes very fine poultry food. **Lb. 15c. postpaid, 25c; 100 lbs. \$9.**

**Milo Maize.** The merit of this non-saccharine sorghum is that when cut for feeding it starts again from the remaining stumps with renewed vigor. Relished by all stock. **Lb. 15c, postpaid 25c; 100 lbs \$9.**

**Feterita.** A variety of corn, resembling Kaffir corn but is claimed to be more productive. **Lb. 15c, postpaid, 25c; 100 lbs. \$10.**

**Golden Millet.** Will grow on any good land and is a heavy cropper. Makes fine hay and the seed is fine for poultry feed. **Lb. 15c, postpaid, 25c; 100 lbs. \$11.50**

**Broom Corn or Hog Millet.** A large variety of millet that yields a heavy crop of hay or seed. **Lb. 15c, postpaid, 25c; 100 lbs. \$11.**

**Early Fortune Millet.** An extra early variety and thrifty grower. **Lb. 15c, postpaid, 25c; 100 lbs. \$11.**

**Cane—Early Amber.** As the results of several experiments here, cane has proven a good crop, especially along the river lands. Fine for fodder. **Lb. 15c, postpaid, 25c; 100 lbs. \$10.**

## FIELD PEAS

Field Peas are very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are quite fattening. Sow, if alone, 120 pounds to the acre; if with other grain, 60 pounds.

**Canadian.** A leading kind; a heavy cropper. **Per lb. 10c; 100 lbs. \$6.**

## BROADCAST SEEDERS

**Cyclone.** The handiest small seeder on the market. Very convenient. Price, each \$3.

**Horn Seeder.** Very handy to use for small seeds, like clover and timothy. Each \$1.25.

## PLANT SETTERS

**Master's** For planting cabbage, kale, celery, etc. With this little planter you can plant, water and fertilize ten thousand plants a day. Price, each \$6.50.

## CORN PLANTERS

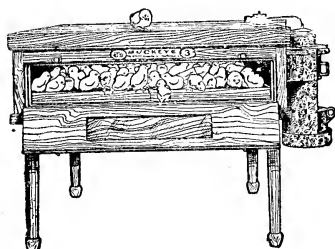
**Crescent.** A two-handed planter; strong and durable. Price \$1.50.

**Segment.** Very accurate in planting. Price \$2.50.

## BROODERS AND INCUBATORS

We handle the Queen and Buckeye Incubators and Brooders. Send for special Catalogues.

### QUEEN PRICES FOR 1921



### QUEEN INCUBATORS

All complete with instruction book.

| NO.      | CAPACITY       | RETAIL PRICE |
|----------|----------------|--------------|
| 1 .....  | 85 egg .....   | 32.50        |
| 2 .....  | 135 egg .....  | 46.00        |
| 3 .....  | 180 egg .....  | 54.50        |
| 4 .....  | 275 egg .....  | 68.50        |
| 5 .....  | 400 egg .....  | 82.00        |
| 25 ..... | 600 egg .....  | 120.50       |
| 35 ..... | 800 egg .....  | 158.00       |
| 45 ..... | 1000 egg ..... | 190.00       |

### STYLE K INCUBATORS

| NO.      | CAPACITY      | RETAIL PRICE |
|----------|---------------|--------------|
| 20 ..... | 70 egg .....  | \$22.75      |
| 21 ..... | 130 egg ..... | 36.00        |
| 22 ..... | 220 egg ..... | 47.50        |

### QUEEN BROODER STOVES

|         |                  |         |
|---------|------------------|---------|
| 1 ..... | 600 chick .....  | \$27.50 |
| 2 ..... | 1200 chick ..... | 33.50   |

NOTE—Order what 3-inch stove pipe you need at 30c per 2-foot length, elbows 50c.

### BUCKEYE INCUBATORS AND BROODERS

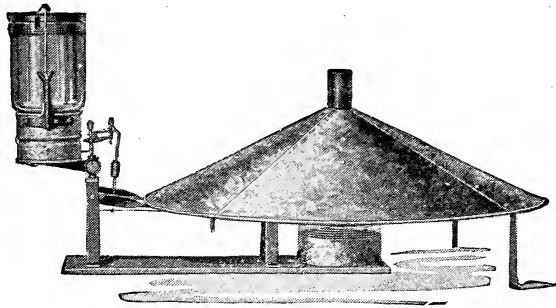
| Incubators     |               |          | Brooders          |                 |         |
|----------------|---------------|----------|-------------------|-----------------|---------|
| No. 14 Style E | 65 egg .....  | \$ 19.75 | No. 20 Metal      | 60 chicks....   | \$14.00 |
| No. 16 " E     | 110 egg ..... | 33.75    | No. 21 metal      | 100 .....       | 17.75   |
| No. 17 " E     | 210 egg ..... | 46.00    | No. 22 " "        | 150 chick ....  | 22.25   |
| No. 1 Standard | 110 egg ..... | 46.50    | No. 18 Standard   | 500 .....       | 27.75   |
| No. 2 " "      | 175 egg ..... | 55.25    | No. 19 " "        | 1000 chicks...  | 34.25   |
| No. 3 " "      | 250 egg ..... | 69.75    | No. 10 Blue Flame | 200 chick ..... | 21.25   |
| No. 4 " "      | 350 egg ..... | 83.50    | No. 11 Blue Flame | 350 chick ..... | 25.75   |
| No. 5 " "      | 600 egg ..... | 129.00   | No. 12 Blue Flame | 500 chick ..... | 29.75   |

**Kresky Brooders.** We take orders for the Kresky Oil Burning Brooders at regular price.

### THE NEWTOWN COLONY BROODER

A Blue Flame, Wickless, Oil Burning Colony Brooder—Automatic Regulator—Practical, Safe and Successful

For several years the coal-burning colony brooder has been generally recognized as the "acme of brooding efficiency," and we are still selling hundreds of them. The only trouble is that in some sections of this Western country it is troublesome to secure the proper grade of coal. Coal oil is obtainable anywhere. The Newtown is not an untried substitute. It is a success and today the Newtown is giving efficient service in every state of the Union and nine foreign countries. It is simple, safe, and durable—a real practical device. **Right Sizes—Right Prices.**



Each brooder is shipped with everything complete in one crate, all ready to operate. A thermometer and full instructions for operating are furnished with each brooder.

| NO.                               | DIAMETER OF HOVER | WEIGHT CRATED | PRICE          |
|-----------------------------------|-------------------|---------------|----------------|
| 118                               | 36 inches         | 90 lbs        | <b>\$25.00</b> |
| 125                               | 52 inches         | 150 lbs       | <b>32.50</b>   |
| Capacity of small size 300 to 500 |                   |               |                |
| Capacity of large size up to 1000 |                   |               |                |

## READY-MIXED POULTRY FOODS

### PRICES SUBJECT TO MARKET

The standard food for poultry of all ages, for all purposes—specially mixed and balanced Chick Food, Developing Food, Laying Food, Scratching Food, Analyzed and tested.

Prices subject to market changes.

**Blatchfords Milk Mash.** For Baby Chicks. Without any doubt, the finest chick starter ever offered on the market. You will not have any sick chicks if you commence and feed this prepared mash. Fed by all the leading poultrymen of the U. S. and always good. **Lb. 10c; 25 lbs. \$2.25; 100 lbs. \$8.00**

Blatchfords' Milk Mash contains 25 carefully ground ingredients mixed in proper proportions. Guaranteed analysis; Protein 20%; Fat 4%; Fiber, not over 7½%; Carbohydrates 52%

### FISHER'S FEEDS FOR POULTRY

#### "is Guaranteed Analysis"

A trial will convince you of their superiority over the much advertised "local brands."

Three years ago we took up the sale of the Fisher's Flouring Mills Co. line of Poultry Foods, because we decided that the Fisher's Foods were the best that money and experience could produce. Our sales are still increasing and thousands of our customers now agree with us that Fisher's Poultry Foods are unequalled in quality and always the same. Prices change but the formula never and you can always depend on getting full value. We claim they are the cheapest because the most profitable. We are in a position to quote the lowest prices.

**Fisher's Chick Feed** Feed this as a first feed to the baby chicks, but not until they are at least 48 hours old, figuring from time they are taken out of incubator.

Feed several times a day just a little at a time at first on a board or in feed hoppers. After two days scatter it in the straw litter and make them work for it. Chick feed should be fed for at least two months.

After four or five days start feeding our Chick Starting Mash in addition to the Chick Feed giving just a little three times daily, increasing gradually. (See instructions under Starting Mash. Don't forget "Choline" for chicks—it pays big.)

**10 lbs., 50c; 100 lb. sacks, \$4.25.**

**Fisher's Chick Starter Milk Mash.** Start feeding this when chicks are four or five days old in addition to our Chick Feed. Give just a little at a time, three

feeds daily, gradually increasing the amount to what they eat up clean in 10 to 15 minutes until they are 10 days old, when it can be left in the hopper before them for an hour or two for a few days, then leave it before them all the time until they are three to four weeks old—but feed Chick Food three times daily in addition in litter, as much as they clean up in 30 minutes. (Special feeding instructions on request.) **10 lbs. 50c; 100 lb. sacks \$4.25. Write for quantity price.**

**Fisher's Developing Mash.** When chicks are four weeks old put them on Developing Mash, feeding in hoppers, having it before them continually in addition to regular grain feeds. This is a great feed to build the chicks up making healthy, strong pullets and will develop them so they can be ready to start the year's work in a vigorous condition. Feed until ready to put them on egg mash rations which should be changed gradually by mixing the two together, slowly increasing the Egg Producer Mash so they are on it complete at about six months of age. **10 lbs. 50c; 100 lb. sacks, \$4.25.**

(See Mash Hoppers, Feeders and Founts, "Choline" helps them digest the food.)

**Fisher's Growing Feed.** This meets the wants of the growing chicks from the time they are eight to ten weeks of age until ready for scratch food. It contains the nutritive elements necessary for the rapid building of tissue and if fed Developing Mash will bring about the quickest possible development. **10 lbs. 50c; 100 lb. sack, \$4.25.**

**Fisher's Fattening Mash.** Prepared expressly to meet the wants of the fancier who lacks weight in his show birds or the grower desiring to quickly fatten and finish young or old stock for the market. It will quickly add weight to a mature or growing fowl. **10 lbs. 50c; 100 lb. sack, \$4.**

**Fisher's Scratch Feed.** It is composed of such an attractive variety of wholesome grains as will induce the fowls to scratch and work for it when thrown in the litter; otherwise it would defeat the purpose to feed nothing but whole grains. When fed with Fisher's Egg Producer of Buttermilk Mash, it makes an ideal balanced ration supplying the necessary materials for yolks and whites of the egg. Experienced Poultrymen recognize it as the best scratch food the market supplies. **10 lbs. 50c; 100 lb. sack \$3.75.**

**Fisher's Egg Producer.** A mash mixture containing all the ingredients necessary to the matured laying hen; very rich in protein. It renders unnecessary the feeding of blood meal, beef scraps, etc. The rapidly increasing demand for Fisher's Egg Producer proves its real money-making value. Results will prove this the most economical mash on the market. **10 lbs. 50c; 100 lb. sack, \$3.75.**

**Fisher's Buttermilk Mash.** A mash mixture containing the right elements in proper proportions for egg making and body maintenance. It provides the life and vigor promoting fat, keeps the layers in prime condition throughout the year, is strong in egg-making materials, appetizing, easily digested.

Balanced with Fisher's Scratch it completes a balanced body maintaining and egg making nourishment. It keeps the layers up to maximum capacity the year round. Protein, not less than 22%; Fat, not less than 6%; Fibre, not more than 4%. **10 lbs. 50c; 100 lbs. \$4.**

**Fish Meal.** The grade we sell is the best obtainable, it contains nothing but pure fresh fish properly processed and will not taint the eggs. **10 lbs. 80c; 100 lbs. \$7.**

**Our "Special" Beef Scraps** are rich in materials which make bone, muscle and lean meat. They insure health, thrift and vigor, and satisfy the natural craving of the bird's system for flesh-food in some form. Rich in protein. Can be fed dry or with cooked rations. Don't waste any feed in one section of Sanitary Feeder. See page 26. **Lb. 10c; 10 lbs 80c; 100 lbs. \$7.**

**Granulated Bone—"Special".** We offer only highest quality white, pure, and clean. Rich in phosphates, lime and protein. Should be kept before your chickens at all times. Feed in a Sanitary Shell and Grit Box. **5lbs. 25c; 10 lbs. 50c; 100 lbs \$4.50.**

**Oyster Shell Crushed.** Best grade pure hard Eastern oyster shell, crushed and sifted. Supplies lime material for egg shells. Does not take the place of grit as some think. Hens must have both shell and grit. Oyster shells should be within reach of your hens at all times. **10 lbs. 25c; 100 lb. sack \$2.**

**Grit—Best Grade.** Every poultry raiser should keep a supply of this grit in each pen. Baby chicks and ducklings must have it. Made in three sizes, chick, pigeon or broiler and hen size. We always send hen size unless otherwise ordered. **12 lbs. 25c; 100 lb. sacks, \$1.50.**

**Alfalfa Meal.** The best substitute for green food for winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts. **100 lbs. \$2.25.**

**Charcoal.** Our stock is prepared especially for poultry and of highest quality obtainable; a preventative of bowel trouble, sour crop and indigestion; a health preserver. State size wanted. **A, for mash, B, for chicks, C, for large chickens or hens. Lb. 10c; 3 lbs. 25c; 10 lbs. 75c; 50 lbs. \$2.75.**

**Poultry Pepper.** A good tonic and invigorator. Ground. **1 lb. 30c.**

## FISHER'S CALF MEAL

**Fisher's Calf Meal.** Dairy men who sell whole milk must look for a milk substitute on which to raise their calves. Fisher's Calf Meal is a perfect substitute and is absolutely guaranteed if fed as directed.

Fisher's Calf Meal is a scientific product produced under perfect sanitary conditions and contains the proper proportion of oatmeal, cornmeal, soybean meal, linseed oil meal, milo maize meal, blood meal and a little salt. **25 lb sacks, \$1.85; 50 lb sacks, \$3.50; 100 lb. sacks, \$6.50.**

### SOJA BEAN MEAL

Fed same as oil meal. **5 lb. 25c; 25 lbs. \$1; 100 lbs. \$3.50.**

### OIL MEAL

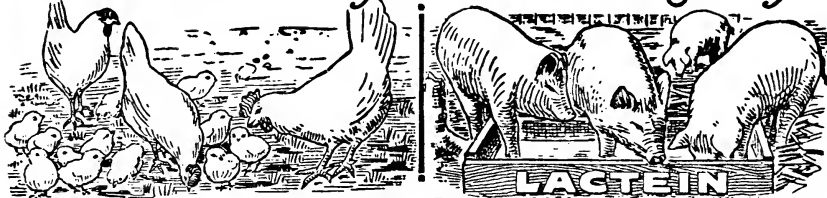
Price. **5 lbs. 25c; 100 lbs. \$4.25.**

### TOBACCO DUST

For use in dust baths and nests. A cheap and effective exterminator of lice. **Lb. 15c; 10 lbs. \$1.**

# LACTEIN

• Makes Hens Lay — Makes Hogs Pay •



## Condensed Buttermilk

**Lactine** is a scientific product produced under perfect sanitary conditions from fresh buttermilk and whey at the creameries, cheese and casein factories of California.

**Lactine is Buttermilk and Whey without Water.** Lactine retains all the health-giving values and a uniform acidity without the useless bulk of water encountered in either whey or buttermilk and will keep pure and fresh under any condition or in any climate for any length of time. **5 gal. keg, \$4.25; 10 gal. keg, \$7.50; 25 gal. \$17.50; 50 gal. \$31.20.**

### RAISE YOUR CALVES ON BLATCHFORD'S CALF MEAL AND SELL THE MILK

It would take a real big book to tell you all the accomplishments of Blatchford's Calf Meal. Blatchford's Calf Meal is the only complete milk equal, having all the elements of whole milk and costing you less than the value of skim milk. It comes

in 25, 50 and 100-pound bags and 100 pounds makes 100 gallons of complete milk-equal.

Now what's to hinder you from selling all the milk you get and raising your calves at a great profit besides? You know what both beef and veal are worth. **25 lbs. sack, \$2.25; 50 lb. sack, \$4.25; 100 lb. sack, \$8.**

#### FROM SOW TO PASTURE

**Blatchford's Pig Meal.** Wean your little pigs easily, safely and cheaply on Blatchford's Pig Meal. From Pignood to Porkage it gives big bone and solid flesh. Prevents loss of growth and vitality during the critical weaning period, and always makes the runts catch up. **25 lb. sack, \$2.25.**

#### MOE'S DRY MASH HOPPER

The curved bottom of the Hopper keeps the feed within easy reach of the birds. The gradual enlargement from the top to base prevents clogging. The wire grid and the wire running from the flange through the wire grid prevents any chance of the fowls throwing out or wasting the feed. The sloping cover prevents the birds from roosting on the Hopper, and when both covers are closed, it is rat and mouse proof. A trial will convince you that it is a Hopper of the greatest merit. Manufactured of heavy galvanized iron in three sizes. **No. 35, 8½ in. wide, each \$2.10; No. 36, 12 in. wide, each \$2.75;.**

#### MOE'S REGAL EGG CARRIER

This "Safety First" box is adapted to either parcel post or express use and can be used time after time. We stand right behind this box and believe it to be the safest and most durable egg carrier on the market. It is so strong that it will more than bear your own weight and so safe that when filled with eggs, it will withstand the severest jolt without breaking an egg. Manufactured of strong corrugated cardboard in the following sizes; **15 egg size, each 30c; Doz. \$3.25. 30 egg size, each 60c; doz., \$6.50.**

#### KANT KRACK EGG BOXES

A very good shipping box but not as good as the Regal.

**15 egg size, each, 30c; ..doz. \$3.00**

**30 egg size, each, 50c; ..doz. \$5.00**

**50 egg size, each, 65c; ..doz. \$7.50**

#### LIVE CHICK BOXES

Made in durable shape for shipping live chicks.

**25 Chick size, each 30c; ..doz. \$3.00**

**50 Chick size, each 45c; ..doz. \$4.50**

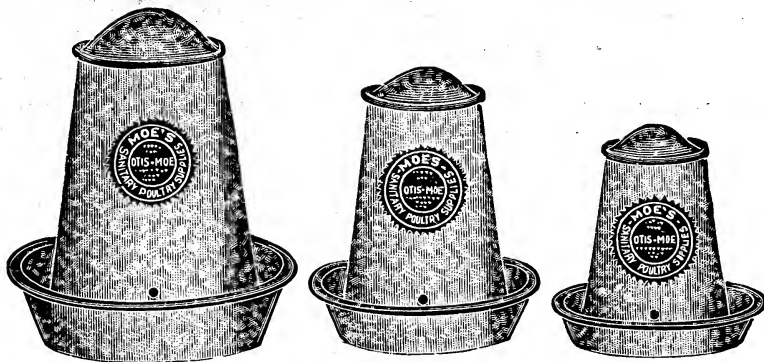
**100 Chick size, each, 60c; ..doz. \$6.00**

#### IDEAL PAPER EGG BOXES

Intended for use is delivering eggs to private families. Nicely printed with a blank space for your name and address. Weight 12 lbs, per 100. **1=doz. size, 30c doz. \$2 per 100; Sample box by mail 5c.**

## DRINKING FOUNTAINS FOR CHICKS

### BOTTOM-FILL FOUNTAINS



A General Utility Fountain at a Low Price

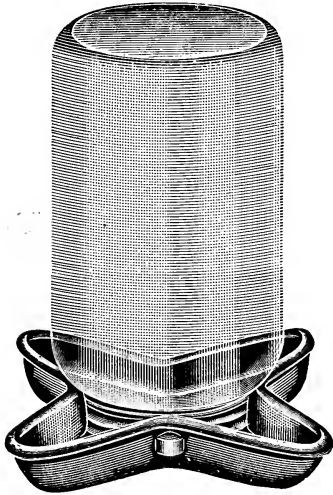
Made in two pieces. Easily cleaned and, owing to its shape, it will not burst from freezing. This fountain fills the breeder's needs for an inexpensive fountain. Made of the best grade of galvanized iron in three sizes.

No. 19—About 1 quart capacity, each \$1.45

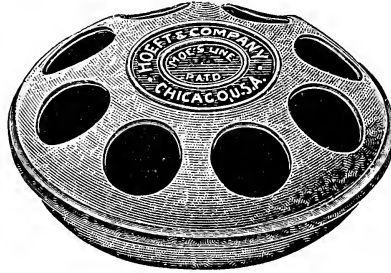
No. 20—About ½ gallon capacity, each .55

No. 24—About 1 gallon capacity, each .95

**Moe's Wall Fountain.** A convenient style of fountain. Very popular with some breeders, that can be hung up on the walls of the poultry house out of the litter. Gal. size, each 95c.

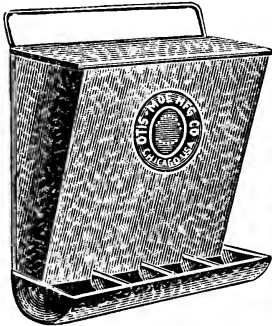


**Moe's Star Jar Fountain and Feeder.** Patented. The most simple, practicable and durable Mason Jar Fount on the market. Will fit pint, quart or one-half gallon Mason jar. Manufactured of one piece of non-rusting metal. No parts to come unsoldered. Leaking impossible. Convenient, cheap and sanitary. Provides greater drinking surface than the round fountain. Little chicks cannot get drowned. Can be used for feed as well as water. Manufactured in one size only. No. 32, without the jar, 20c.

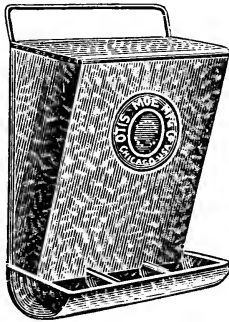


**Moe's Round Baby Chick Feeder.** Pure food for the baby chicks. A great feed saver, as the little chicks cannot get into it and contaminate the feed. Cannot be upset. Can also be used for water or milk. This is a practical, well-made feeding device that will last for years. Manufactured in two sizes. No. 11, 6 inches in diameter, 8 feeding holes, each, 30c; No. 12, 8¼ inches in diameter, 12 feeding holes, each, 45c.

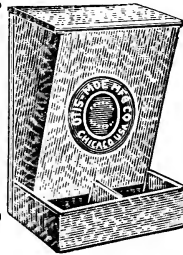
## GRIT AND SHELL BOXES



NO. 90  
FOUR COMPART-  
MENT ROUND  
BOTTOM



NO. 9  
THREE COMPART-  
MENT, ROUND  
BOTTOM

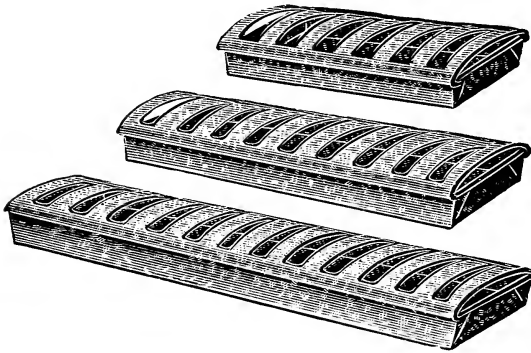


NO. 45  
TWO COMPART-  
MENT SQUARE  
BOTTOM

Grit, shell and charcoal have now become a recognized essential part of the diet insuring healthy fowls. They cannot be more economically supplied than in one of our inexpensive compartment boxes. Can also be used as a feed hopper for little chicks. Made of heavy galvanized iron in three sizes; No. 45—For baby chicks, each 55c.

No. 9—For grown birds, each, \$1.45.

No. 90—For grown birds, each, \$1.80.



**Sanitary Feeding Troughs.** Can be used for feed, wet mash or water. Barred top prevents wasting of feed and if used for water does away with the little chicks drowning. The feed saved by using this trough will more than pay for itself in a few weeks. Made of the best grade of galvanized iron in three sizes, namely; No. 21—12 inches long, each 70c. No. 22—18 inches long, each, 95c.

## POULTRY SUPPLIES

### INCUBATOR AND BROODER SUPPLIES

**Tested Incubator Thermometers.** The best that we know of Each \$1.

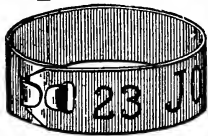
**Brooder Thermometers.** Tested. Each \$1.50.

**Oil for Incubators and Brooders.** We carry the best oil for this purpose. Prices, 5 gallon can \$2; subject to market.

**Wafer Regulators.** Each \$1.25.

**Lamp Wicks.** Each 5c; per dozen 50c. postpaid.

**Buck 12=Dozen Egg Crate.** Made of wood, cardboard fillers. Very light but strong; metal corners; holds 12 dozen eggs; lock wire bale; wooden handle. Weight 5 1/2 lbs. Each 75c.



**Leg Bands.** It pays to mark your chickens and keep track of the different stock, and also of the hens that lay. Several styles; send for list. Prices, doz. 15c; 25 for 25c; 50 for 45c; 100 for 85c.

**Lime Nest Eggs.** Each 5c; per dozen 45c.

**Celluloid Leg Bands. Spiral.** Assorted colors and sizes for different breeds of chickens. State color and size wanted. Doz. 15c; 50 for 50c; postpaid.

**Incubator Lamps.** Size No. 2, 1 inch wick, with chimney complete, \$2.00, postpaid, \$2.15. Size No. 3, 1 1/2 inch wick, with chimney, complete, \$2.25; postpaid, \$2.40.

**Brooder Lamps.** Same size and prices, as above, chimney different.

### OAKES SAFETY LAMPS

Size No. 2, complete, have extra water jacket, \$2.25, postpaid, \$2.40.

Size No. 3, complete, same as above, larger size, \$2.50, postpaid, \$2.65.

**Poultry Punch.** A good, handy little punch, 25c each, postpaid.

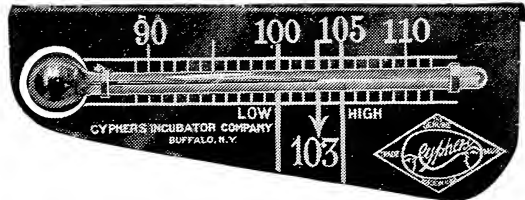
## POULTRY AND STOCK REMEDIES, TONICS, ETC.

### LEE'S POULTRY SUPPLIES

**Lee's Germozone.** The great remedy for roup and colds. Liquid 75c a bottle; Tablets 75c pkg.; postpaid 85c.

**Lee's Lice Killer.** Liquid. This is the best selling article on the market. Qt. 60c; 1/2 gal. 90c; gal. \$1.50.

**Lee's Lice Powder.** A good powder, especially for small chicks. 30c; postpaid 40c.



**Lee's Egg Maker.** A favorite tonic for many poultrymen. 50c and \$1. a pkg. 25 lb. pail \$4.50.

### ZENOLEUM

The best disinfectant and germicide on the market. Recommended by all the Agricultural Colleges. Mix with water. Qt. can, 75c.; ½ gal. \$1.25; gal. \$2

**Zenoleum Lice Powder.** A strong lice powder that every one says does the work. 30c pkg.; postpaid 40c.

### DAIRY ASSOCIATION GOODS

This is the best line of dairy remedies sold on the market and those who use any of their goods always continue to do so.

**Kow Kure.** This is the best known cow remedy on the market and it pays to use it. 70c and \$1.40 a can; postpaid 85c and \$1.55.

**Garget Cure.** A sure cure for garget. 70c a pkg; postpaid 80c.

**Bag Balm.** This is a great salve for udder troubles, caked bags, etc. 70c a can; postpaid 80c.

### DR. HESS' FAMOUS REMEDIES

**Dr. Hess' Stock Tonic.** 2 lbs. 35c; 4½ lbs. 75c; 10 lbs. \$1.50; 25 lb pail, \$3.50

**Poultry Pan-a-ce-a.** 1½ lbs. 30c; 7 lbs. \$1.25; 25 lb. pail \$3.50.

**Instant Louse Killer.** Lb. 30c; postpaid, 40c.

**Dr. Hess' Heave Powders.** This is a great remedy for heaves and if taken in time will cure. Pkg. 60c; postpaid, 70c.

**Dr. Hess' Worm Powders.** One of the best remedies we have ever sold. Pkg. 60c; postpaid 70c.

**Dr. Hess' Hog Worm Powders.** This is certainly a good remedy for worms in hogs and does the work. 10 lbs. \$1.25.

### STANDARD CARBOLINEUM

Used as a wood preserver and as a lice killer. Lasts a long time. Qt. 50c; ½ gal. 90c; 1 gal. \$1.50.

### FLY SPRAYS

**So-Boss-So.** This is one of the best things we have ever sold. It keeps them off. Qt. 75; ½ gal. \$1.15. gal \$1.75.

**S. W. Co.** We first introduced this several years ago and it gives the very best of results. One of the best fly sprays we have handled. Qt. 60c; ½ gal. 90c; gal. \$1.50.

**Pruning Compound.** This is a thick paint to paint over the cuts after pruning and for any damage to the bark. Keeps the water out and lets the tree heal up in good shape. Qt. 65c; gal. \$2.

**Lice Paint.** This is a good mixture to paint your chicken house with as it penetrates the wood and kills all lice and mites. In bulk, bring your can, Gal. 50c; 5 gal. \$2.25; 5 gal. with can \$2.75.

### CHOLERINE

The hen that never cackles seldom lays an egg. Cholerine makes her cackle. Cholerine is a germo tonic and regulator for fowls that makes poultry pay and makes your hens lay. Cholerine, is a poultry appetizer, tonic, body builder and egg producer. It is for Cholera, Roup, Limber Neck, White Diarrhoea and other diseases. Is used by the largest shippers, feeders and raisers of poultry. Cholerine will condition and keep fowls healthy and make their digestive organs work all the time. Undigested food is costly. Cholerine saves the baby chicks. 6 oz. bottle, 35c; 16 oz. 65c; gal. \$2.25.

### PINE-OL

Disinfectant, Germicide, De-odorant, Antiseptic, Fragrant pine odor. Emulsifies in water. One part to 100 of water makes a solution sufficiently powerful for ordinary use. Adapted for Stock Farms and Poultry Ranches; also in Hospitals, Sanitariums and similar institutions. Pine-ol has many uses, but the chief one for the poultryman is in connection with colds, rheumatism, etc. ½ gal can. \$1.50.

## GERMO

Insecticide. Kills by contact, head lice, body lice, crabs, bed bugs, ants, roaches, cloth moths, chiggers, mosquitoes, fleas, lice and mites on fowls and many other insects. A disinfectant and germicide, (when used on dry surfaces) For the home, hospital, asylum, school or hotel, but not to be used with water. For use against most contagious diseases, germs and microbes. **Qt. can, \$1.**

**Roup Remedy.** This is a special remedy for roups and colds. **Pkg. 25 and 50c, postpaid, 30c and 60c.**

**Cholera Remedy.** For chicken cholera, indigestion, sour crop, and all bowel troubles. **Pkg. 30c, 60c and \$1; postpaid, 35c, 65c, and \$1.10.**

**White Diarrhea Remedy.** A special remedy for baby chicks. **25c and 50c a pkg.; postpaid, 30c and 60c.**

## SPRAY MATERIAL

We carry the largest stock of the most reliable spray materials in the city. You will find that our prices are the lowest that can be made on first class goods. You do not want to use anything but the best, as it is money thrown away to use poor spray material. Spare the Spray and Spoil the Fruit. Never before has it been so necessary to protect fruit and vegetable crops against the ravages of insects and fungous diseases. This applies to commercial plantations and to the small orchard or garden. The question as to whether spraying pays has been answered. The real problem is one of improving sprays and their method of application. Government and State experiment stations are contributing greatly to this development work. In addition to them The Sherwin-Williams Company is sparing no expense to give the growers of fruits and vegetables, insecticides and fungicides of the highest quality and efficiency.

The leading insecticide and fungicides of today are in dry form, while paste and liquid forms are being discarded rapidly. These sprays are no longer home-made, but manufactured in a large commercial way, thus ensuring products of such uniform composition as to meet the requirements of both State and Government regulations. We are agents for this part of the valley for The Sherwin-Williams Co. and can certainly recommend them as we do not think there is any better spray material made. Send for The Sprayer's Manual, it is free.

**S=W. Spray Oil, or Spray Mulsion.** For Scale, Thrip, etc.

From experiments we have made the past ten years, we find that for Scale on Fruit trees, there is no spray that has the killing effect of the oil spray. Should be applied a dormant spray for this purpose.

**Spray-Oil,** so far has been the only remedy for thrips; should be used with Black Leaf 40 and applied as soon as the thrip shows. Do not delay as the damage is done within a day or so and crop ruined. **5 gal. can, \$3; 50 gal bbl. \$22.**

**S=W Dry Lime Sulfur.** This is taking the place of the old Lime-Sulphur Solution as it has all the advantages and none of the disadvantages of this spray. a 100 lb. drum makes as much spray as a 600 lb. bbl. of the old spray. From tests made the last few years, it has surpassed all other sulphur sprays in various tests.

Used for San Jose Scale, Apple Scab, Peach Curl Leaf, Brown Rot, Pear Psylla, Leaf Blister Mite, etc. **Lb. 35c; 5 lbs. \$1.15; 10 lbs. \$2; 25 lbs. \$3.50; 50 lbs. \$6.50; 100 lbs. \$11.90; 200 lbs. \$20; Add parcel post if wanted by mail.**

**Lime-Sulphur Solution.** For those that prefer the solution, we carry the Dependable Brand and can recommend it as a high grade solution. **50 gal bbl. \$10.75.**

**S=W Arsenate of Lead, Dry Powdered.** This has supplanted the paste form and is now used in all sections of the U. S. Much more convenient to use, only takes half as much, much more easy to mix, does not freeze, always good, no matter how old. Aresenic and Lead thoroughly combined, eliminating danger from burning. Cannot be sent by mail. **½ lb. 35c; 1 lb. 60c; 4 lbs. \$1.40; 24 lbs. \$7.20; 100 lbs. \$28.50.**

**S=W Fungi-Bordo Spray, Dry Powdered.** The most convenient form of Bordo spray. Easy to handle and mixes readily. Now sold at prices that are cheaper than you can afford to buy the materials and make it. Cannot be sent by mail. **Lb. 40c; 5 lbs. \$1.75; 25 lbs. \$5.75; 50 lbs. \$9.75; 100 lbs. \$18.50; 200 lbs. \$35.**

**Black Leaf 40, Nicotine Sulphate.** Guaranteed to contain 40% nicotine. When used according to directions it neither burns nor stains fruit or foliage. Used

as a fruit spray for thrip and Aphis, as a Hop spray, and as a Sheep Dip. Also, used on Garden truck, onions, etc. Cannot be sent by mail. **Oz. 25c; ½ lb. \$1; 2 lbs. \$3.25; 10 lbs. \$13.75.**

**Whale Oil Soap.** An excellent summer wash for Aphis, etc. **Lb. 15c; 25 lbs. \$3; postpaid, 25c lb.; 100 lbs., market price.**

**Tobacco Powder for Dusting.** For destruction of Green Fly, Aphis, etc., where fumes cannot be confined. **Lb. 15c; 10 lbs. \$1.25.**

**Sulphur.** A good grade of sulphur for spraying, etc. **Lb. 10c; 10 lbs. 50c; 110 lbs. \$3.15.**

**Lime.** The famous Roche Harbor Lime is the best grade on the market for all purposes. **10 lbs. 30c; 100 lbs. \$4.50.**

**Bluestone.** The best grade for spraying. **Lb. 20c; 100 lbs. \$11.**

**Grafting Wax.** ¼ lb. 15c; ½ lb. 25c; lb. 40c; postage extra

**Beeswax.** Lb. 85c; postpaid 95c.

**Rosin.** Lb. 15c; postpaid, 25c; 10 lbs. \$1.40, not postpaid.

**Slug Destroyer.** This is a powder that you sprinkle around the plants to keep the slugs away. And it does it. **Pkg. 25c; postpaid, 35c.**

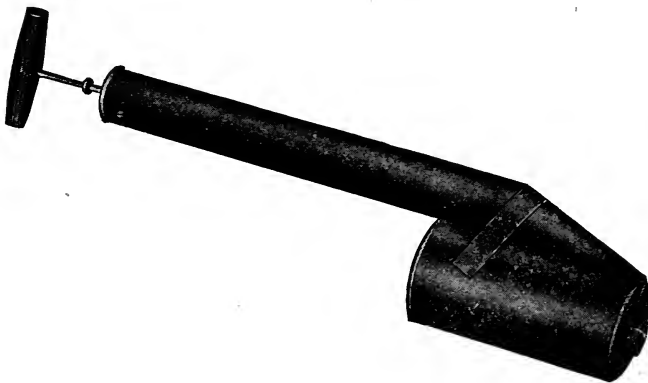
### CARCO VEGETABLE SPRAY

For many years the gardeners of the Pacific Coast have suffered from a scourge of root-maggots and worms that has made gardening, if not impossible, much more unprofitable than it should have been. Many remedies have been tried with little success until the "Carco" formula was discovered.

A wonderfully successful spray for destroying root maggots, grubs, etc., that infest Turnips, Radishes, Beets, Rutabagas, Cauliflower, Cabbage, Onions, etc., and also recommend for combatting crown borers in Strawberries. To get best results, the ground should be sprayed freely before planting, then again as soon as the vegetables come up. Dip cabbage plants in a solution of "Carco" before planting. Carco is highly concentrated; use one part "Carco" to 100 to 125 parts of water. Descriptive pamphlet and testimonials on request. ½ pint cans prepaid 40c; Larger sizes by freight or express only; ½ pints 30c; pints 50c; quarts 80c; ½ gal. \$1.25; gal. \$2.

**Magotite.** Insures a good crop of Radishes, Kale, Cabbage, Onions, Turnips, Cauliflower, Etc., "Mag-O-Tite" acts as a preventive by repelling the Fly which lays the eggs from which the Maggots are hatched and it also destroys Maggots which are already in the soil. While intended primarily as a remedy for Root Maggots, it has proved very effective in combatting Earth Worms of all kinds, the Strawberry Crown Borer, Cabbage Worms, Asparagus Miner, Flea Beetles, Cut Worms and all kinds of Slugs. Approximate quantity required. A 2-lb package for about 300 feet of drill, or for field culture 300 to 500 lbs. per acre. **2 lbs. pkg. 35c; 4 lbs. pkg. 60c; 8 lbs. pkg. \$1; 25 lbs. sack. \$2.50; 100 lb. sack, \$8.50.** Send for folder of directions.

### SPRAYERS



**No. 7 Single Tube Sprayer.** Practical, simple construction. The single brass discharge tube throws a heavy mist spray straight ahead. Made in tin and galvanized iron. Air chamber 18 x 1¾ inches. The reservoir holds about one quart. **Tin, Each 75c.**

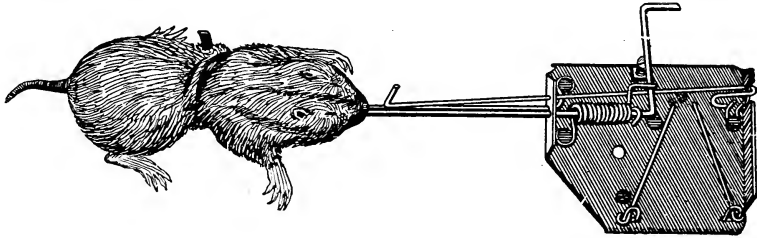
### HAND CULTIVATOR AND SEEDER

We have a good high grade hand plow and cultivator that is very convenient for garden use. Complete with all necessary attachments. **Price \$5.50.**

The same plow with seed drill attachments, **Price, \$9.50.**

### TRAPS

**Reddick Mole Traps.** The best trap for catching moles on the market. Each **\$1.50; postpaid \$1.65.**



### THE CINCH GOPHER TRAP

The only safe and successful device for catching this pest. No dangerous gun; no ammunition. Easy to operate and when set properly is a "cinch" sure enough; Any boy can clean the ranch with them. Will also catch moles, rats, etc., **Price \$1;** with scoop for opening holes. Sold several hundreds of these traps the past season and they all gave fine satisfaction. Guaranteed to do the work or money back. **Postpaid \$1.15.** State whether for moles or gophers.

### OUT O'SIGHT MOLE TRAP

One of the best. Sure to "get them." **Price \$1.75; postpaid, \$1.65.**

### SQUIRREL POISON

We handle a reliable brand of squirrel poison that does the work. **Can 50c.**

### BARRELS AND KEGS

We carry a complete stock suitable for meat, fish, cider, vinegar, kraut, etc.

|                         |               |                        |               |                         |               |
|-------------------------|---------------|------------------------|---------------|-------------------------|---------------|
| 5 gallon keg . . . . .  | <b>\$1.10</b> | 15 gallon keg. . . . . | <b>\$2.10</b> | 30 gallon barrel. . . . | <b>\$3.00</b> |
| 10 gallon keg . . . . . | <b>1.60</b>   | 20 gallon keg. . . . . | <b>2.50</b>   | 50 gallon barrel. . . . | <b>4.75</b>   |

### FERTILIZERS

The use of fertilizers is becoming more general each year as it is proving very profitable on many crops.

We handle a reliable line that we can recommend as it has given good results. Special prices on large lots. Write for prices. All prices subject to market changes.

**General Fertilizer.** This is used on gardens, and for all general crops including cabbage, kale, cauliflower, corn, potatoes, etc. **100 lbs. \$3.75.**

**Berry Fertilizer.** This special fertilizer has given wonderful results increasing the crop from 25% to 100% in yield. Made especially for Strawberries, Logan berries, Raspberries, etc. **100 lbs. \$3.75.**

**Orchard Fertilizer.** This is a high grade extra strong fertilizer, balanced up to produce the best results for orchards. **100 lbs. \$6.**

**Lawn Dressing.** This is the best lawn fertilizer we have ever seen on the market. It certainly makes the grass grow. Also, used for flowers, shrubs, rose bushes, etc. **10 lbs. 75c; 25 lbs. \$1.60; 50 lbs. \$3; 100 lbs. \$6.**

**Bone Meal.** We carry a high grade bone meal for fertilizer that makes a valuable fertilizer for certain crops where a slow acting fertilizer is needed. **10 lbs. 50c; 100 lbs. \$4.25.**

**Superphosphate.** This is a very valuable fertilizer to use on many crops, wheat, oats, clover, vetch, corn and all fruits are benefited by the proper use of this form of ammonia. **100 lbs. \$2.50; ton \$42.**

**Soda Nitrogen, Nitrate of Soda.** Used where quick action is needed. Also, used by a great many as an Orchard dressing and for berries. **10 lbs. 50c; 100 lbs. \$4.; ton \$75.**

**Sheep Guano.** We offer a finely ground, high grade guano that shows a good test. **100 lbs. \$1.75; ton \$30.**

**Land Plaster.** Made from pure gypsum, free from clay and other foreign substances. Fine for clovers, alfalfa, vetch, peas, corn, beans, potatoes, etc. **100 lbs. 90c; ton \$17.50.**

**Fertilizer Lime.** This is a high grade article and should not be confused with common ground lime rock. Especially valuable for wet, sour land, also, used on onion land and for various fruits. **100 lbs. \$1.25.**

**Plant Food.** This is a concentrated fertilizer put up in small packages for house plants and is diluted with water when used. **Lb. pkg. 50c.**

**Agricultural Sulphur. "Toro" Brand.** A specially prepared agricultural sulphur to increase crop yields now a proven fact.



"Toro" Brand is sold as Specially Prepared Agricultural Sulphur, and contains besides pure refined flour sulphur other selected ingredients representing in value at least twice the price of sulphur. These products are all obtained in conjunction with other important manufacturing processes, and it would be utterly impossible to sell this new mixture at the same price as our regular grade of agricultural sulphur if these ingredients had to be manufactured for this purpose only: 96% of the "Toro" Brand is available as plant food.

Quantity to apply; "Toro" brand is packed in 110-lb. sacks, and should be applied at the rate of one sack per acre. It may be sowed broadcast by hand or applied by an ordinary land-plaster sower, lime spreader or fertilizer drill. The important point is to get a uniform distribution.

Time to apply; "Toro" Brand should be worked into the soil in late fall and early spring in order to get the benefit of winter and early spring rains. However, in the irrigated districts it may be applied at any time of the year. It has proven a wonderful success in various parts of the country and found the most valuable of all fertilizers for certain crops, like clovers, alfalfa, vetch, field peas, and for fruits.

It has increased these various crops from 50% to 1000% on various tests.

Buy a few sacks and give it a trial for different kinds of crops and see the results. Send for circulars and sample. **Price, 110 lb. sack, \$6; ton \$92.**

## BEE SUPPLIES

### SECTION HONEY BOXES

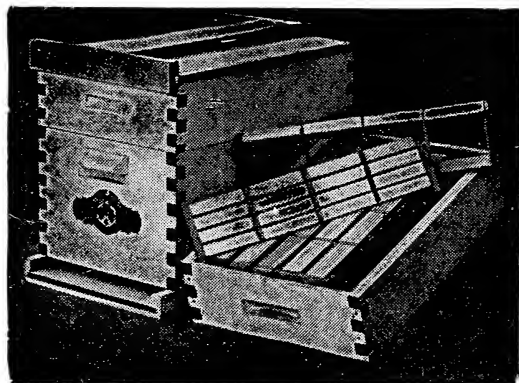
(Description and price.. Order by numbers)

**Our No. 1 Sections** are made of the choicest white basswood lumber and are perfect in finish, and free from defects. They are not all snow white, but vary from that to a light cream color. Choice honey shows off to best advantage in a section not too white, as it is the honey rather than the wood that the consumer looks to. **Price, per 100, \$2.25; 500 \$10.25.**

### SECTION HOLDERS

Six section holders, with separators, one follower and wedge, are put in each super, and each holder holds four 1-lb. honey boxes. The bottom strips is  $\frac{1}{4}$  inches thick, and is cut out to fit in sets of sections,  $1\frac{3}{4} \times 18\frac{1}{2}$  inches, slotted. **Each 5c; 100 \$4.50.**

**Dovetailed Pine Hives.** No. 1. Dovetailed hive, complete with one super. Consists of one bottom board, one body, one super, one cover, eight Hoffman Brood Frames, one division board, six section holders, 24 sections and foundations started for frames, and sections and nails. Nailed, **\$4.25, each; per 5, K. D. flat, \$17.50.**



No. 2. Hive is the same as No. 1, less sections and foundation starters. Nailed \$4. each; per 5, K. D. flat \$15.50.

**Dovetailed Supers.** No. 1 Pine with sections, foundation starters. Nailed, \$1.75 each; per 5, K. D. flat, \$8.

No. 2 Pine, less sections and starters. Nailed, \$1.30 each; per 5, K. D. flat, \$5.50.

No. 0. Empty, pine or cedar, Nailed, 90c each; per 5, K. D. flat \$3.75.

### COMB FOUNDATION

Packed in 1, 2, 3, and 5-pound paper boxes, of 25 pounds in a case. Light standard brood grade, 6 to 7 square feet per lb., **Price per lb. 85c.** Light section grade 11 to 12 square feet per lb., **Price per lb. 90c.** If foundation is wanted by mail, add 6c per lb. up to two lbs., and 2c per lb. over 2 lbs.

### HOFFMAN BROOD FRAMES

The Hoffman Improved Foundation Fastening Frames are the latest and best brood frames out. The top bar is made with a beveled strip which holds the foundation absolutely in place, perfectly straight and exactly in center of top bar. Anyone can put foundation in these new frames very rapidly. **Price, Hoffman Frames, per 10, 80c; per 100, \$7.**

### SEPARATORS

One separator should always be placed between each section holder so that the bees will build the honey comb even in each section. Slotted wood separator, 4½x18, per doz. 15c; per 100 \$1.

### BEE VEILS

**Hat Veils.** These veils have a rubber band around the top so as to fit the hat snugly. The lower end is bound, to prevent fraying. The kinds of material are given below. Price list (postpaid); No. 2 Veil, cotton tulle, with silk tulle face, \$1.40; No. 3 Veil, cotton tulle throughout, \$1.30

**Globe Veils.** Each \$1.65.

### BEE ENTRANCE GUARDS

**Root's or Tinker's.** These are to admit workers and exclude drones. After the drones are all out, fix the guards over the entrance, and at night the drones can be destroyed. **Price 30c; by mail 40c.**

### TINNED WIRE

No. 30. Per spool, 10c; postpaid; ¼ lb. spool 25c, postpaid 30c.

### BEE SMOKERS

**Clark's Cold Blast.** Probably the most popular smoker in use today is the Cold Blast, although many are now changing to the hot blast, claiming that they are more effective. The Clark is the best low-priced smoker. **Price \$1.10; by mail \$1.20.**

**Root Smoker.** It is neat in appearance and does not topple over easy. Makes a good strong blast, with little work. Very substantial. **Price standard, 3¼ inch, \$1.50; by mail \$1.60.**

**A B C Bee Culture.** For the veteran as well as the beginner. While the book is in a true sense an A B C of Bee Culture, in that it is adapted to the requirements of the beginners, no veteran, no matter how extensive his experience, can afford to be without a work of this kind, containing as it does, a carefully prepared treatise on every late method of practice known to the business. 500 pages, postpaid **\$3.15.**

## PURE HAWAIIAN CANE MOLASSES

The universal appetizer for cows, pigs, sheep, cattle, horses, chickens. Cane molasses is the one universal feed for livestock. Whether you are feeding to produce milk, beef, pork or wool, the benefits of a molasses ration are readily observed. Successful livestockmen and dairymen everywhere are adopting it as a regular addition to the feed ration.

Now that it has become available on the Pacific Coast, dairymen and feeders are equipping themselves to take advantage of this cheap and wonderful feed. And why? Every gallon of Hawaiian Cane Molasses contains over five pounds of sugar.

It is a great appetizer, milk producer, tonic, fattener and it keeps the animal in good condition.

It makes an irresistible appeal to stock of all kinds and enables you to feed up all the roughage on the place. **Price per barrel, 50 gal. weight about 600 lbs. net, \$16.** Special prices on large lots. Subject to market changes in price.

### QUANTITY OF SEED TO PRODUCE A GIVEN NUMBER OF PLANTS AND SOW AN ACRE

| PER ACRE                                   | PER ACRE  |
|--|---|
| Artichoke, 1 oz to 500 plants.... 6 oz     | Horseradish roots.... 10,000 to 15000                 |
| Asparagus, 1 oz to 800 plants.... 1 lb     | Kale, 1 oz to 2000 plants..... 4 oz                   |
| Asparagus roots..... 5000 to 10,000        | Kaffir Corn, in drills..... 6 to 8 lb                 |
| Barley..... 2 to 2½ bu                     | Kohl Rabi, 1 oz to 2000 plants.. 4 oz                 |
| Beans, dwarf, 1 lb to 100 ft. drill. 1 bu  | Leek, 1 oz to 100 ft of drill..... 4 lb               |
| Beans, pole, 1 lb to 100 hills.... ½ bu    | Lettuce, 1 oz to 150 ft of drill... 3 lb              |
| Beet, garden, 1 oz. to 100 ft. drill. 7 lb | Millet, for seed..... 20 lb                           |
| Beet, Mangel, 1 oz. to 75 ft. drill. 5 lb  | Millet, for hay..... 30 lb                            |
| Broccoli, 1 oz. to 2000 plants.... 4 oz    | Melon, Musk, 2 oz to 100 hills 2 to 3 lb              |
| Brussels Sprouts, 1 oz to 200 plants 4 oz  | Melon, Water, 4 oz to 100 hills, 3 to 4 lb            |
| Broom corn, in drills..... 15 lb           | Oats..... 2 to 3 bu                                   |
| Buckwheat..... ½ to 1 bu                   | Okra, 1 oz to 100 ft of drill..... 8 lb               |
| Cabbage, 1 oz to 2000 plants.... 4 oz      | Onion Seed, for sets..... 60 to 85 lb                 |
| Carrot, ½ oz to 100 ft of drill .. 3 lb    | Onion, 1 oz to 150 ft drill.. 3 to 4 lb               |
| Cauliflower, 1 oz to 3000 plants.. 3 oz    | Onion Sets, 1 qt to 40 ft drill.... 8 bu              |
| Celery, 1 oz to 5000 plants.... 4 oz       | Parsnips, 1 oz to 150 ft drill.... 3 lb               |
| Cheat..... 2 bu                            | Parsley, 1 oz to 150 ft drill..... 3 lb               |
| Chicory..... 4 lb                          | Peas, Field..... 2 bu                                 |
| Clover, Alsike and white.. 8 to 10 lb      | Peas, Garden, 1 lb to 100 ft of drill ..... 1 to 2 bu |
| Clover, Alfalfa..... 15 to 20 lb           | Pepper..... 1 oz to 1000 plants                       |
| Clover, Crimson Trefoil... 10 to 15 lb     | Pumpkin, ½ lb to 100 hills. 3 to 4 lb                 |
| Clover, Red..... 10 to 12 lb               | Radish, 1 oz to 100 ft drill..... 10 lb               |
| Collards, 1 oz to 2000 plants.... 4 oz     | Rape ..... 3 to 8 lb                                  |
| Corn, Pop (shelled)..... 8 to 10 lb        | Rye ..... 1½ to 2 bu                                  |
| Corn, Sweet or Field, hills. 12 to 20 lb   | Salsify, 1 oz to 100 ft drill..... 6 lb               |
| Corn, for soiling, drills..... 2 bu        | Speltz ..... 100 lb                                   |
| Cress, ¾ oz to 100 ft of drill.... 1 lb    | Spinach, 1 oz to 100 ft drill..... 8 lb               |
| Cucumbers, 1 oz to 100 hills 2 to 3 lb     | Sugar Cane, in drills ..... 10 lb                     |
| Egg plant, 1 oz to 2000 plants.. 4 oz      | Sunflower ..... 8 lb                                  |
| Endive, ¼ oz to 100 ft drill.... 4 lb      | Squash, Summer, 4 oz to 100 hills 3 lb                |
| Flax, broadcast..... ¾ bu                  | Squash, Winter, 8 oz to 100 hills 4 lb                |
| Grass, Blue Kentucky..... 2 bu             | Tomato, 1 oz to 2000 plants.... 4 oz                  |
| Grass, Meadow, Fescue..... 1 bu            | Tobacco, 1 oz to 4000 plants.... 3 oz                 |
| Grass, Mixed Lawn..... 5 to 6 bu           | Turnip, 1 oz to 150 ft drill.. 2 to 3 lb              |
| Grass, Red Top, chaff..... 2 bu            | Vetch..... 1½ to 2 bu                                 |
| Grass, Red Top, solid seed. 12 to 15 bu    | Vetch with grain..... 2 bu                            |
| Grass, Timothy..... 12 to 15 lb            |   |
| Grass, Orchard, Perennial Rye,             |   |
| Fowl Meadow, Wood Meadow. 20 lb            |   |



The Largest and Oldest  
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